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United States
Department of
Agriculture



United States
Department of
the Interior

Natural Resources Research Directory

U. S. DEPT. OF AGRICULTURE
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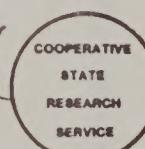
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August 1982



FOREWORD



U.S. DEPARTMENT OF THE INTERIOR

BY: James G. Watt

TITLE: James G. Watt

SECRETARY

DATE: December 17, 1982

U.S. DEPARTMENT OF AGRICULTURE

BY: John R. Block

TITLE: John R. Block

SECRETARY

DATE: November 17 1982



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DEPARTMENT OF AGRICULTURE

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ECONOMIC RESEARCH SERVICE

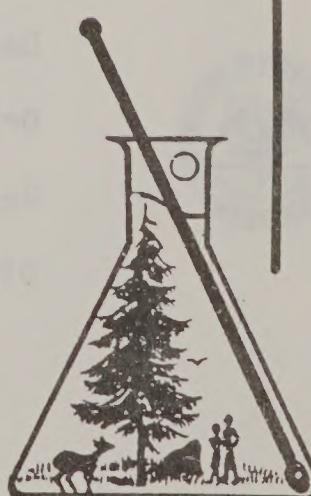


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DEPARTMENT OF THE INTERIOR

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DEPARTMENT OF AGRICULTURE



AGRICULTURAL RESEARCH SERVICE

DESCRIPTION OF AGENCY ACTIVITIES

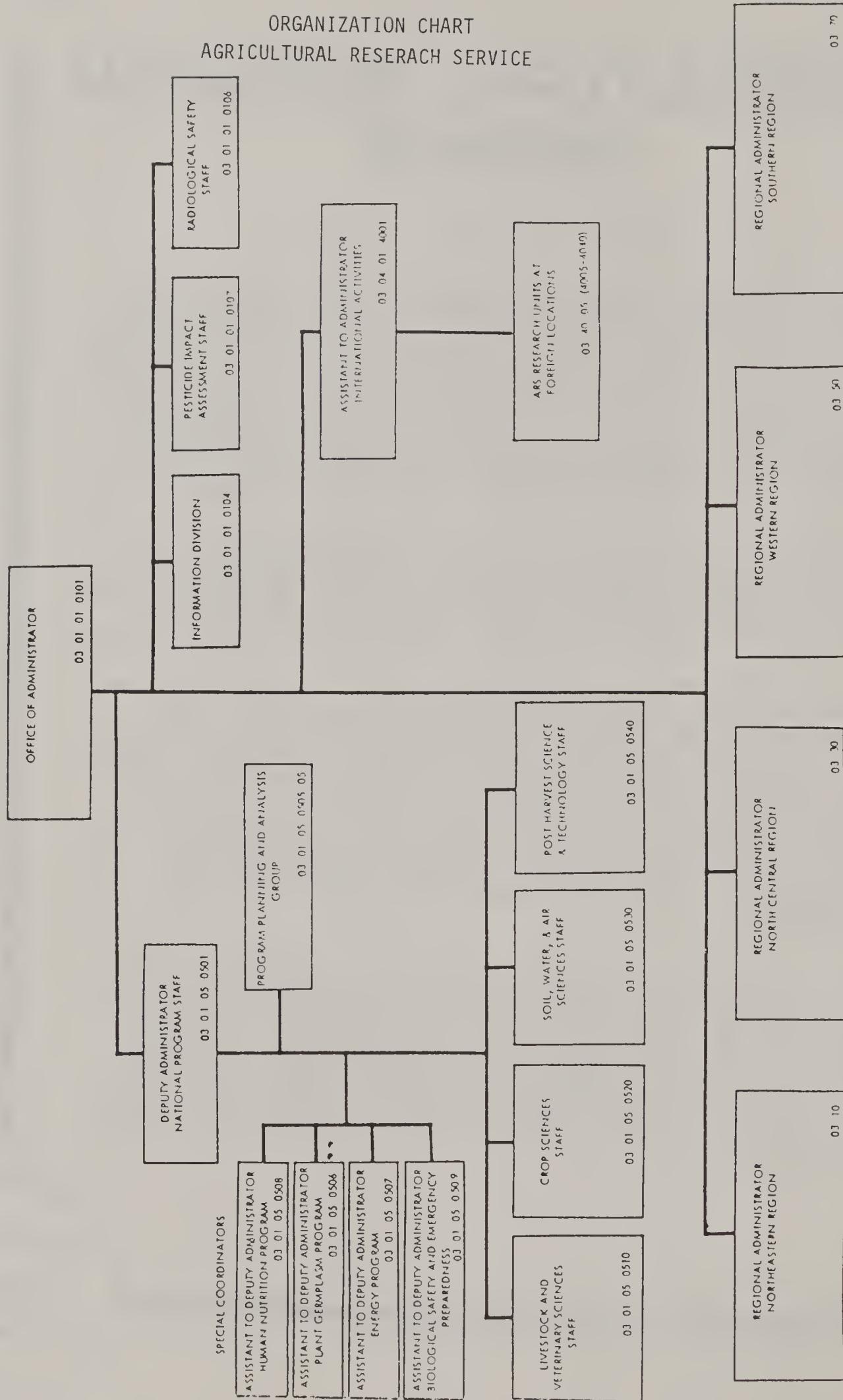
The mission of the Agricultural Research Service (ARS) is to plan, develop, implement, monitor, and evaluate research and development designed to produce the new knowledge and technologies required to assure the continuing vitality of the Nation's food and agricultural enterprise and to improve human health and safety. The ARS conducts in-house research which: (1) Addresses those problems which are of legitimate national concern; (2) Conducts research and development which exploits the unique capabilities and facilities available through this integrated and coordinated national resource; and (3) Makes its scientific accomplishments widely known for public benefit.

The mission of the Soil, Water, and Air research program in ARS is to develop improved knowledge, concepts, and practices that permit greater beneficial uses of soil, water, and air resources consistent with environmental quality standards and the long-term needs for continued high quality agricultural commodities at reasonable prices.

Investigations include: Reducing salt damage to soils, crops, and water; improving irrigation and drainage of agricultural land; developing tillage practices for improving soil physical conditions and crop growth; managing and using precipitation and solar energy for crop production; reclaiming and revegetating land areas disturbed by man; utilizing, managing, and conserving soil fertility for increased production and nutritional quality of plants and animals; preventing pollution of, and improving the quality of soil, water, and air; controlling water erosion, wind erosion, and sedimentation; and conserving and managing agricultural water resources.

Special programs are also being conducted on: Developing remote sensing technology for predicting crop yields and for early warning of crop stress; energy conservation and use; predicting and controlling nonpoint pollution sources; and management of soils for using and disposing of urban and agricultural wastes. The information obtained is of importance to watershed associations, river basin commissions, county and municipal governments and to any other organization or individual concerned with the conservation and use of our environment.



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REGIONAL MAP
AGRICULTURAL RESEARCH SERVICE

NORTH CENTRAL

NORTH- EASTERN

SOUTHERN

WESTERN

Local Landmarks

Recolonization	Baltim. Md.	New Orleans, La.
	Pearl. Fla.	Berkeley, Calif.

Area Officer

Research Notebooks

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1882-1893. *Journal of the Royal Society of Medicine* 1993; 86: 113-114.

ATHENS Athene, Gr.

BARC Beltsville, Md.

HAIR. Amer. long

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San Francisco, Calif.
Grand Forks, N.D.
Houston, Tex.
Boston, Mass.
Bellville, Md.

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DIRECTORY
AGRICULTURAL RESEARCH SERVICE

Soil, Water, and Air Sciences Research Locations

Alabama

Auburn, Auburn University, Soil and Water Research, C. B. Elkins, 534-4531 or 205-826-4100

Auburn, National Tillage Machinery Lab, R. L. Schafer, Director, 534-4515 or 205-887-8596

Arizona

Phoenix, U.S. Water Conservation Lab, H. Bouwer, Director, 262-4356 or 602/261-4356

Tucson, SW Rangeland Watershed Research Center, K. G. Renard, Director, 762-6381 or 602-792-6381

California

Fresno, Water Management Research Lab, C. J. Phene, 467-5337 or 209-487-5337 or 209-291-3511

Riverside, U.S. Salinity Lab, J. van Schilfgaarde, Director, 796-6353 or 714-683-0170

Riverside, USDA, ARS, University of California, Soil Pollution Research, W. F. Spencer, 714-787-5145

Colorado

Akron, Central Great Plains Research Station, D. E. Smika 303-345-2259

Fort Collins, Soil-Plant Nitrogen Research Lab, L. K. Porter 323-5201 or 303-482-5733

Fort Collins, CSU Foothills Campus, Irrigation Research, D. F. Heermann, 323-5231 or 323-5214

Fort Collins, CSU Foothills Campus, Soil-Plant-Water, W. O. Willis, 323-5231 or 323-5214

Florida

Gainesville, ARS-USDA, University of Florida, Soil-Water-Atmosphere-Plant Relationships, L. H. Allen, Jr., 946-7250

Georgia

Tifton, SE Watershed Research Lab, L. E. Asmussen, Director, 912-386-3462

Watkinsville, Southern Piedmont Conservation Research Center, J. E. Box, Director, 250-2425

Idaho

Boise, NW Watershed Research Center, D. L. Brakensiek, Director, 554-1363

Kimberly, Snake River Conservation Research Center, W. D. Kemper, Director, 554-6578

Illinois

Urbana, USDA-ARS, Soil-Water-Plant Relationships, D. B. Peters, 958-5540 or 957-4370

Indiana

West Lafayette, National Soil Erosion Lab, W. C. Moldenhauer, Director, 317-494-8685

Iowa

Ames, USDA-ARS, Iowa State University, Soil & Water Management, J. M. Lafren, 865-5723

Kansas

Manhattan, Kansas State University, Wind Erosion Research, L. Lyles 752-4276

Louisiana

Baton Rouge, Soil & Water Pollution Research, C. E. Carter, 687-0209

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Maine

Orono, New England Plant, Soil, and Water Lab, S. S. Leach, Acting Research Leader, 833-7475

Maryland

Beltsville, Biological Waste Management and Organic Resources Lab, J. F. Parr, Chief, 344-3163

Beltsville, Hydrology Lab, E. T. Engman, Chief, 344-3490

Beltsville, Pesticide Degradation Lab, P. C. Kearney, Chief, 344-3417

Beltsville, Soil Nitrogen and Environmental Chemistry Lab, A. W. Taylor, Chief, 344-3511

Minnesota

Minneapolis, St. Anthony Falls Hydraulic Lab, F. W. Blaisdell, 725-2669

Morris, North Central Soil Conservation Research Lab, G. R. Benoit, Director, 612-589-3411

St. Paul, University of Minnesota, Soil & Water Management Research, R. H. Dowdy, Acting Research Leader, 725-2950

Mississippi

Mississippi State, Crop Simulation Research Unit, D. N. Baker, 490-4676; SPAR Lab, 601-325-3905

Oxford, USDA Sedimentation Lab, N. L. Colemen, Director, 601-234-4121

Missouri

Columbia, Watershed Research Unit, A. T. Hjelmfelt, Acting Res. Leader, 276-5331

Montana

Sidney, Northern Plains Soil and Water Research Center, J. K. Aase, Acting Res. Leader, 406-482-2020

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Nebraska

Lincoln, Soil & Water Conservation Research Unit, J. F. Power, 541-5262 or 622-1484

New York

Ithaca, U.S. Plant, Soil and Nutrition Lab, D. R. Van Campen, Director, 882-4280

North Carolina

Raleigh, North Carolina State University, Air Pollution Research, W. W. Heck, 672-4069

North Dakota

Mandan, Northern Great Plains Research Center, A. L. Black, Director, 701-663-6445

Ohio

Coshocton, North Appalachian Experimental Watershed, C. R. Amerman, 614-545-6349

Oklahoma

Durant, Southern Plains Watershed and Water Quality Lab, J. R. McHenry, Director, 736-5401

Stillwater, Water Conservation Structures Lab, C. E. Rice, Acting Research Leader, 728-4135

Oregon

Pendleton, Columbia Plateau Conservation Research Center, R. R. Allmaras, 420-3292

Pennsylvania

University Park, NE Watershed Research Lab, H. B. Pionke, 727-4600

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Puerto Rico

Rio Piedras, Agricultural Experiment Station, J. Vicente-Chandler, Soil and Food Crop Management Research, 809-753-4007

South Carolina

Florence, Coastal Plains Soil and Water Conservation Research Center, P. G. Hunt. Director, 677-3345

Texas

Big Spring, U.S. Big Spring Field Station, D. W. Fryrear, 915-263-0293

Bushland, Conservation & Production Research Lab, B. A. Stewart, Director, 735-6724

Temple, Grassland, Soil and Water Research Lab, E. Burnett, Director, 736-1201

Weslaco, USDA Subtropical Research Lab, C. M. Heald, Director, 512-968-5533

Washington

Prosser, Irrigated Agriculture Research and Extension Center, Soil & Water Management Research, D. E. Miller, 509-786-2226 or 509-786-3454

Pullman, Washington State University, Soil & Water Management Research, R. I. Papendick, 335-1551

West Virginia

Beckley, Appalachian Soil and Water Conservation Research Lab, O. L. Bennett, Director 925-5432

Wyoming

Cheyenne, High Plains Grasslands Research Station, G. E. Schuman, 328-2434

COOPERATIVE STATE RESEARCH SERVICE

DESCRIPTION OF AGENCY ACTIVITIES

The Secretary of Agriculture is responsible for the proper administration of the provisions of the McIntire-Stennis Act. This function has been delegated to the Cooperative State Research Service (CSRS). Among the responsibilities of CSRS are the following:

1. Prepare and distribute necessary administrative guidelines.
2. Allocate funds to the eligible institutions.
3. Ensure that McIntire-Stennis funds and matching funds are utilized to carry out the purposes of the Act.
4. Provide advice and assistance to the eligible institutions as necessary to promote the purposes of the Act.

The scope of forestry research which may be conducted under the McIntire-Stennis Act is very broad. It includes investigations relating to: (1) Reforestation and management of land for the production of timber and other related products of the forest; (2) Management of forest and related watershed lands to improve conditions of waterflow and to protect resources against floods and erosion; (3) Management of forest and related rangeland for production of forage for domestic livestock and game and improvement of food and habitat for wildlife; (4) Management of forest lands for outdoor recreation; (5) Protection of forest land and resources against fire, insects, diseases, or other destructive agents; (6) Utilization of wood and other forest products; (7) Development of sound policies for the management of forest lands and the harvesting and marketing of forest products; and (8) Such other studies as may be necessary to obtain the fullest and most effective use of forest resources.

Only State-certified institutions are eligible to receive funding under the McIntire-Stennis Cooperative Forestry Research Program. Certification is made by the Governor's Designee appointed for this purpose in each State and for the purpose of determining the proportionate amounts of assistance to be extended to these certified institutions within each State.

Eligible institutions are required to propose and conduct research projects supported with McIntire-Stennis funds and, with matching funds, conduct research that is relevant to the special conditions and needs of the respective States.



August 1982
(CSRS)

REGIONAL MAP
COOPERATIVE STATE RESEARCH SERVICE

State Agricultural and Forestry Research Institutions



DIRECTORY
COOPERATIVE STATE RESEARCH SERVICE

Washington Office Organization

Walter I. Thomas, Administrator (202-447-4423)
Edward C. Miller, Associate Administrator (202-447-7441)
Arlin A. Kottman, Executive Officer (202-447-6845)
Nevin G. Brandenburg, Program Manager (202-447-6033)

Natural Resources and Forestry:

John D. Sullivan, Deputy Administrator (202-447-3555)
Boyd W. Post, Forestry Science (202-447-7417)
McKinley Mayes, Coordinator of Special Programs (202-447-5620)
Clarence F. Becker, Agricultural Engineering (202-447-5476)
John C. Meadows, Natural Resource Economics (202-447-3601)
Wayne K. Murphey, Forest Products Technologist (202-447-6347)
Paul E. Schleusener, Agricultural Engineering (202-447-5680)
Charles M Smith, Soil Sciences (202-447-6347)

Competitive Research Grants Office:

David W. Krogmann, Chief (703-235-2628)
Anne H. Schauer, Associate Chief (703-235-2630)
Ritva R. Butrum, Associate Prog. Mgr., Human Nutrition (703-235-2646)
Machi F. Dilworth, Associate Prog. Mgr., Genet. Mech. (703-235-2644)
Iris F. Martin, Associate Prog. Mgr., Nitgn. Fixation (703-235-2648)
Olga vH Owens, Associate Prog. Mgr., Photosynthesis (703-235-2640)

Current Research Information System:

John R. Meyers, Manager, CRIS (301-344-3846)

ECONOMIC RESEARCH SERVICE

DESCRIPTION OF AGENCY ACTIVITIES

The principal function of the Economic Research Service (ERS) is to provide timely and reliable agricultural economic information (research, forecasts of major agricultural indicators, policy analysis, and data) that addresses economic concerns and decisionmaking needs of farmers, extension workers, private analysts, processors, marketers, input suppliers, and policy officials in Federal, State and local governments.

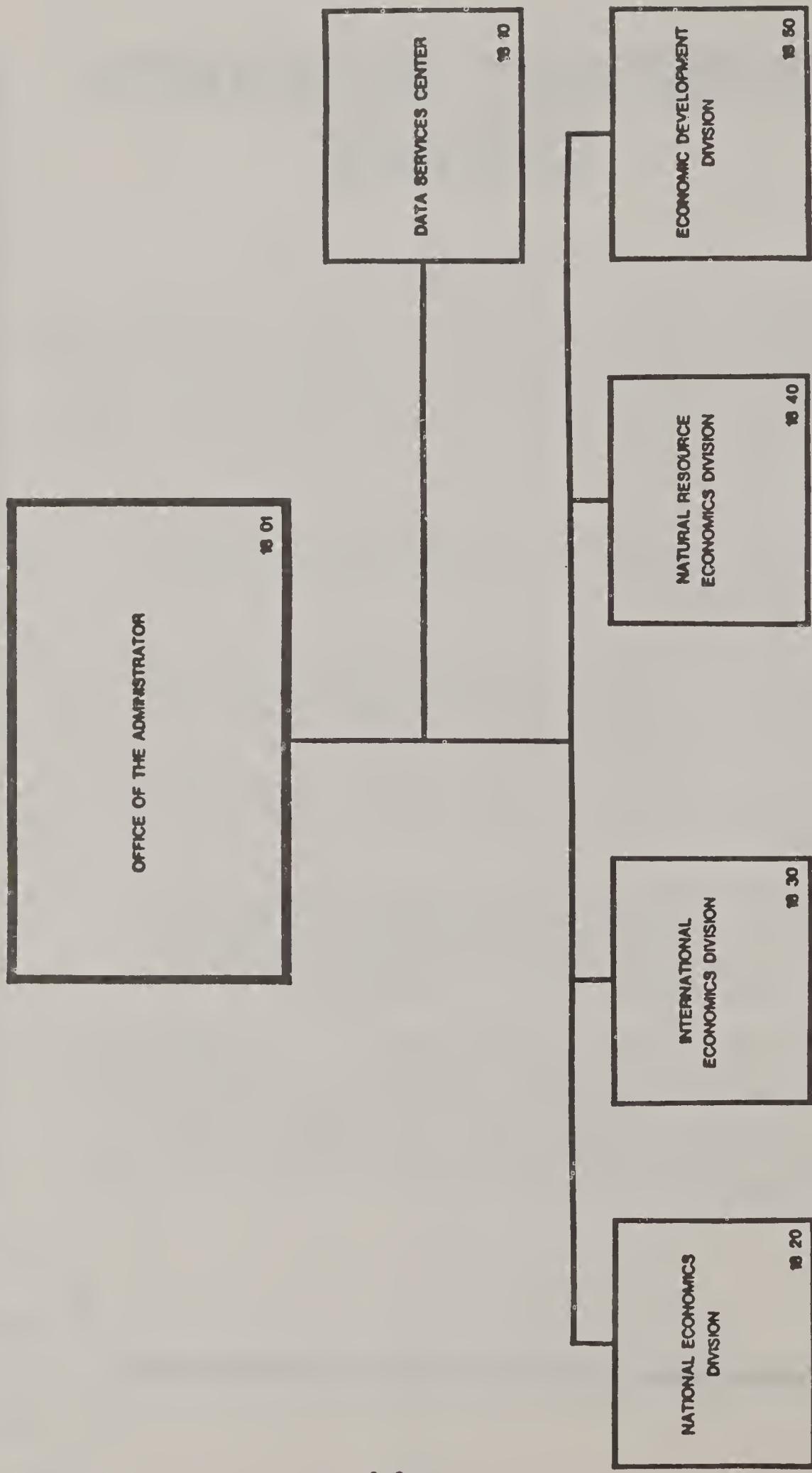
The functions of ERS are carried out by four Divisions:

1. The National Economics Division (NED), provides accurate and timely economic data on farm production and marketing for the Department, the agricultural industry, and the general public.
2. The International Economics Division (IED), mission is to provide timely, accurate, and objective information on the world supply and demand for farm products and on factors affecting international trade.
3. The Economic Development Division (EDD), conducts research on economic and social conditions affecting all rural people.
4. The Natural Resource Economics Division (NRED), conducts research and provides planning assistance and technical consultation on economics and environmental factors and policies relating to the use, conservation, development, management, and control of natural resources.

The headquarters of ERS are in Washington, D.C. Economic analysis and research are conducted both in Washington, D.C., and in 31 States primarily at Land-Grant universities. The primary responsibility in ERS for economic research and analyses of natural resources falls in the Natural Resource Economics Division. The organization and functions of this Division are described in the following material.



ORGANIZATION CHART
ECONOMIC RESEARCH SERVICE



NATURAL RESOURCE ECONOMICS DIVISION
ECONOMIC RESEARCH SERVICE

The Division is organized into four Branches that focus on river basin planning assistance and on water, land, and pest control issues, policies and programs. The fifth Branch works with the other units in the Division, ERS and the Department in developing and maintaining nationally consistent data bases and analytical systems.

River Basins Branch

This Branch provides technical economic information to assist USDA river basin planning. The studies are planned and undertaken jointly with the Soil Conservation Service (SCS) and Forest Service (FS) in cooperation with State sponsors. Funding is provided through transfers from the SCS budget. In addition to individual river basin studies, river basin staff assist the Water Resources Council and similar groups in the development of policies, planning procedures, and principals pertaining to management of water and related land resources. The branch is organized into four geographic sections: Southeast, Northeast, Midwest, and West.

Water Branch

This Branch conducts research on public policies and programs relating the conservation, use, and quality of water that affect the productive capacity and location of American agriculture and environmental quality. Economic studies focus on problems arising from competition among alternative water uses and on water quality issues related to agricultural nonpoint pollution, food processing, and land application of agricultural, municipal, and industrial wastes.

Land Branch

This Branch is concerned with the institutions, laws and rules by which land use decisions are made and how the benefits of use are distributed among private and public groups. Particular emphasis is placed on the property rights system and how ownership patterns affect resource use decisions and the distribution of wealth and income. Other work focuses on land valuation, the economics of land use, cropland availability, and soil conservation.

Pest Control Branch

This Branch is concerned with policies and regulations affecting pesticide availability and use, evaluation of new biological and cultural pest control technology and implementation, and improving environmental quality in U.S. food and fiber production. The Branch focuses on the impacts on farm costs and income and consumer prices of the adoption of alternative pest control strategies and the implementation of regulatory actions on the use of selected pesticides. Additionally, the Branch collects data on pesticide use and pest management practices of farmers.

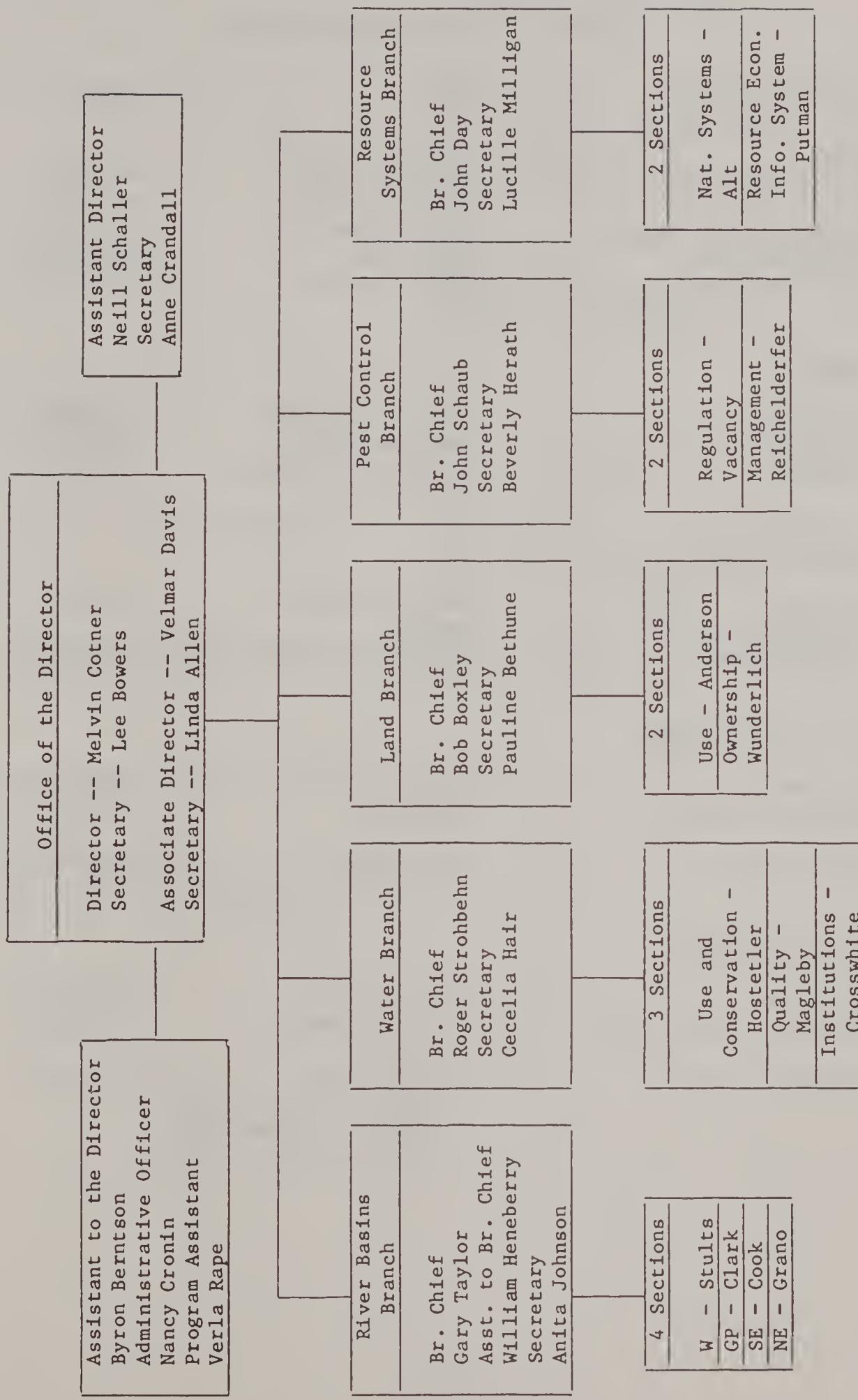
Resource Systems Branch

This Branch works with units of the Division, ERS, the Department, and agencies in other departments to obtain data and to specify assumptions and relationships to include in analytical systems. Data and analytical systems are developed or existing systems modified for application by Branch staff directly or by other researchers.

NATURAL RESOURCE ECONOMICS DIVISION

August 1982
(ERS)

ORGANIZATION CHART
ECONOMIC RESEARCH SERVICE
NATURAL RESOURCE ECONOMICS DIVISION



DIRECTORY
ECONOMIC RESEARCH SERVICE
Natural Resource Economics Division

Listing of Branches and Sections

OFFICE OF THE DIRECTOR

	<u>NAME</u>	<u>PHONE</u>
Director	Melvin L. Cotner	447-8239
Associate Director	Velmar W. Davis	447-8239
Assistant Director	Neill Schaller	447-8750
Assistant to the Director	Byron L. Berntson	447-8750
Program Assistant	Verla Rape	447-8750
Administrative Officer	Nancy Cronin	447-8750

LAND BRANCH

Branch Chief	Robert F. Boxley	447-4859
Land Ownership	Gene Wunderlich	447-9179
Land Use	William D. Anderson	447-4859

PEST CONTROL BRANCH

Branch Chief	John R. Schaub	447-8151
Pesticide Regulation	Vacant	
Pest Management	Katherine Reichelderfer	447-4196

RESOURCE SYSTEMS BRANCH

Branch Chief	John Day	447-8320
Resource Analysis	Klaus Alt	447-8320
Resource Data	John Putman	447-8320

RIVER BASINS BRANCH

Branch Chief	Gary C. Taylor	382-8000
Assistant Branch Chief	William Heneberry	382-8000
Northeast Section	Anthony Grano 305 Manly Miles Bldg. 1405 S. Harrison Road East Lansing, MI 48823	FTS 374-6606

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Southeast Section	Neil Cook	FTS 740-5447
	145 U.S. Post Office and Courthouse Building	
	Little Rock, AR 72201	
Midwest Section	Richard Clark	FTS 541-5371
	U.S. Federal Building and Courthouse - 435	
	100 Centennial Mall North	
	Lincoln, NE 68508	
West Section	Harold Stults	FTS 420-4807
	Extension Hall, Suite 319	
	Oregon State University	
	Corvallis, OR 97331	

WATER BRANCH

Branch Chief	Roger W. Strohbehn	447-8081
Water Use and Conservation	John Hostetler	FTS 596-5772
	Executive Office Center	
	1974 Sproul Road	
	Broomall, PA 19008	
Water Quality	Richard Magleby	447-2667
Water Institutions	William M. Crosswhite	447-2352

Mailing Address for Washington, D.C., staff:

ERS/NRED
500 12th Street, S.W.
U.S. Department of Agriculture
Washington, D.C. 20250

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Field Personnel by State, Branch, and Section

ALABAMA

PHONE

River Basins Branch/Southeast Section

ALASKA

River Basins Branch/Midwest Section

Paul Fuglestad Professional Center Seattle Operator
 2221 East Northern Lights 399-0150
 Boulevard
 Suite 129
 Anchorage, AK 99504

ARIZONA

Water Branch/Water Quality Section

Water Branch/Water Use and Conservation Section

River Basins Branch/West Section

Sterling H. Stipe, Jr. Dept. Agrl. Econ. 762-6736
 Univ. of Arizona
 Tucson, AZ 85701

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ARKANSAS

Resource Systems Branch/National Systems Section

Clifford D. Jones	145 U.S. Post Office and Courthouse Building Little Rock, AR 72201	740-5447
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River Basins Branch/Southeast Section

Neil Cook	145 U.S. Post Office	740-5447
Andrew Hudson	and Courthouse Building	
Joe McKeown	Little Rock, AR 72201	
Robert Pfeiffer		
Otto Thiemann		
Jerry Williams		
Harold Woods		

Water Branch/Water Institutions Section

Otto Thiemann	145 U.S. Post Office and Courthouse Building Little Rock, AR 72201	740-5447
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CALIFORNIA

Water Branch/Water Quality Section

Gerald Horner	Dept. of Agrl. Econ. Univ. of California Davis, CA 95616	453-6001
---------------	----------------------------------------------------------------	----------

River Basins Branch/West Section

Clifford Dickason	202 Milvia Street	449-3224
Ronald Rhoades	Room 301, Tioga Bldg.	
	Berkeley, CA 94704	

Pest Control Branch/Pest Management Section

John Baritelle	Boyden Entomology Lab	796-6741
Joe Moffitt	Univ. of CA, Riverside	
Daniel G. Piper	Riverside, CA 92521	

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COLORADO

Land Branch/Land Use Section

John Green	Economics Department	323-5251
Giles Rafsnider	Andrew Clark Building	
	Colorado State Univ.	
	Fort Collins, CO 80523	

Water Branch/Water Use and Conservation Section

Raymond L. Anderson	Economics Department	323-5251
	Andrew Clark Building	
	Colorado State University	
	Fort Collins, CO 80523	

Water Branch/Water Institutions Section

Jim Kasal	Economics Department	COM 323-5251
Marie Leigh Livingston	Andrew Clark Building	
	Colorado State University	
	Fort Collins, Co 80523	

FLORIDA

River Basins Branch/Southeast Section

Raymond S. Lanier	Food and Resource Econ. Department	946-7218
	Univ. of Florida	
	Room G-155C, McCarty Hall	
	Gainesville, FL 32611	

GEORGIA

Water Branch/Water Quality Section

Jesse R. Russell	Dept. of Agrl. Econ.	404-228-7231
	Univ. of Ga. Expt. Station	
	Room 206	
	Experiment, GA 30212	

Lee Christensen	Dept. of Agrl. Econ.	250-2283
	312 Conner Hall	
	Univ. of Georgia	
	Athens, GA 30602	

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River Basins Branch/Southeast Section

Roger Hexem	Dept. of Agrl. Econ.	250-2283
Grant Reddig	312 Conner Hall	
	Univ. of Georgia	
	Athens, GA 30602	

IOWA

Resource Systems Branch/Resource Analysis Section

Wen-Yuan Huang	Dept. of Agrl. Econ.	865-4422
	583 E. Hall	
	Iowa State University	
	Ames, IA 50011	

River Basins Branch/Midwest Section

Paul Rosenberry	Dept. of Agrl. Econ.	865-4422
	583 E. Hall	
	Iowa State University	
	Ames, Iowa 50011	

MARYLAND

Water Branch/Water Quality Section

Daniel Colacicco	NER-BARC-AEQI	301 344-3163
	B10 Waste Mgmt. & Organic	
	Resources Laboratory	
	BARC-West, Bldg. 007, Room 121	
	Beltsville, MD 20705	

MICHIGAN

River Basins Branch/Northeast Section

Anthony Grano	305 Manly Miles Building	374-6606
David Carvey	1405 South Harrison Road	
Leonard Bull	East Lansing, MI 48823	
Waldon T. Miller		
Priscilla Prophet		
Carmen Sandretto		

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Resource Systems Branch/Resource Data Selection

John Fritschen	305 Manly Miles Building	374-6603
Daniel Kugler	1405 South Harrison Road	
John Putman	East Lansing, MI 48823	
John Sutton		

MISSOURI

River Basins Branch/Midwest Section

Daryll F. Raitt	Dept. of Agrl. Econ.	276-3154
	Univ. of Missouri	
	705 Hitt Street	
	Columbia, MO 65201	

NEBRASKA

Land Branch/Land Use Section

Norman Landgren	U.S. Federal Bldg. &	541-5371
Robert Rathjen	Courthouse - 435	
	100 Centennial Mall North	
	Lincoln, NE 68508	

Water Branch/Water Quality Section

Harold Cosper	U.S. Federal Buliding &	541-5371
Krista Reed	Courthouse - 435	
	100 Centennial Mall North	
	Lincoln, NE 68508	

Water Branch/Water Use and Conservation Section

Verel Benson	U.S. Federal Building &	541-5371
Curtis Everson	Courthouse - 435	
Rodney Sharp	100 Centennial Mall North	
	Lincoln, NE 68508	

Water Branch/Water Institutions Section

Herbert Hoover	U.S. Federal Building &	541-5371
	Courthouse - 435	
	100 Centennial Mall North	
	Lincoln, NE 68508	

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River Basins Branch/Midwest Section

Richard Clark	U.S. Federal Building &	541-5371
Merlin Erickson	Courthouse - 435	
David L. Langemeier	100 Centennial Mall North	
	Lincoln, NE 68508	

NEW YORK

Land Branch/Land Use Section

Nelson Bills	455 Warren Hall	882-4238
	Dept. of Agrl. Econ.	
	Cornell University	
	Ithaca, NY 14850	

River Basins Branch/Northeast Section

Ralph Heimlich	455 Warren Hall	882-4238
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OKLAHOMA

Water Branch/Water Use and Conservation Section

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	Oklahoma State Univ.	
	Stillwater, OK 74074	

OREGON

Water Branch/Water Quality Section

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	Corvallis, OR 97331	

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Pest Control Branch/Pesticide Regulation Section

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Land Branch/Land Use Section

Gregory Gustafson 325 Extension Hall 420-4804
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River Basins Branch/West Section

Robert Dawson	319 Extension Hall	425-2942
Harold Stults	Oregon State University	
Howard Thomas	Corvallis, OR 97331	
Marlow Vesterby		

PENNSYLVANIA

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Arthur Daugherty Dept. of Agrl. Econ. 814-865-0467
 & Rural Soc.
 110 Weaver Building
 Pennsylvania State Univ.
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Water Branch/Water Use and Conservation Section

John Hostetler Executive Office Center 596-5772
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TEXAS

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Glen Wistrand

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Paul Dyke

Grassland Soil & Water
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Blackland Research Center
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Pest Control Branch/Pesticide Regulation

Virgil Whetzel

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West Virginia University
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304-293-6253

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Wayne Weber

College of Agriculture
Div. of Resource Management
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University of Wisconsin
Madison, WI 53706

364-5243

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Water Branch/Water Quality Section

Nicholaas Bouwes	Dept. of Agrl. Econ. Univ. of Wisconsin Room 340, Ag. Hall 1450 Linden Drive Madison, WI 53706	364-5219
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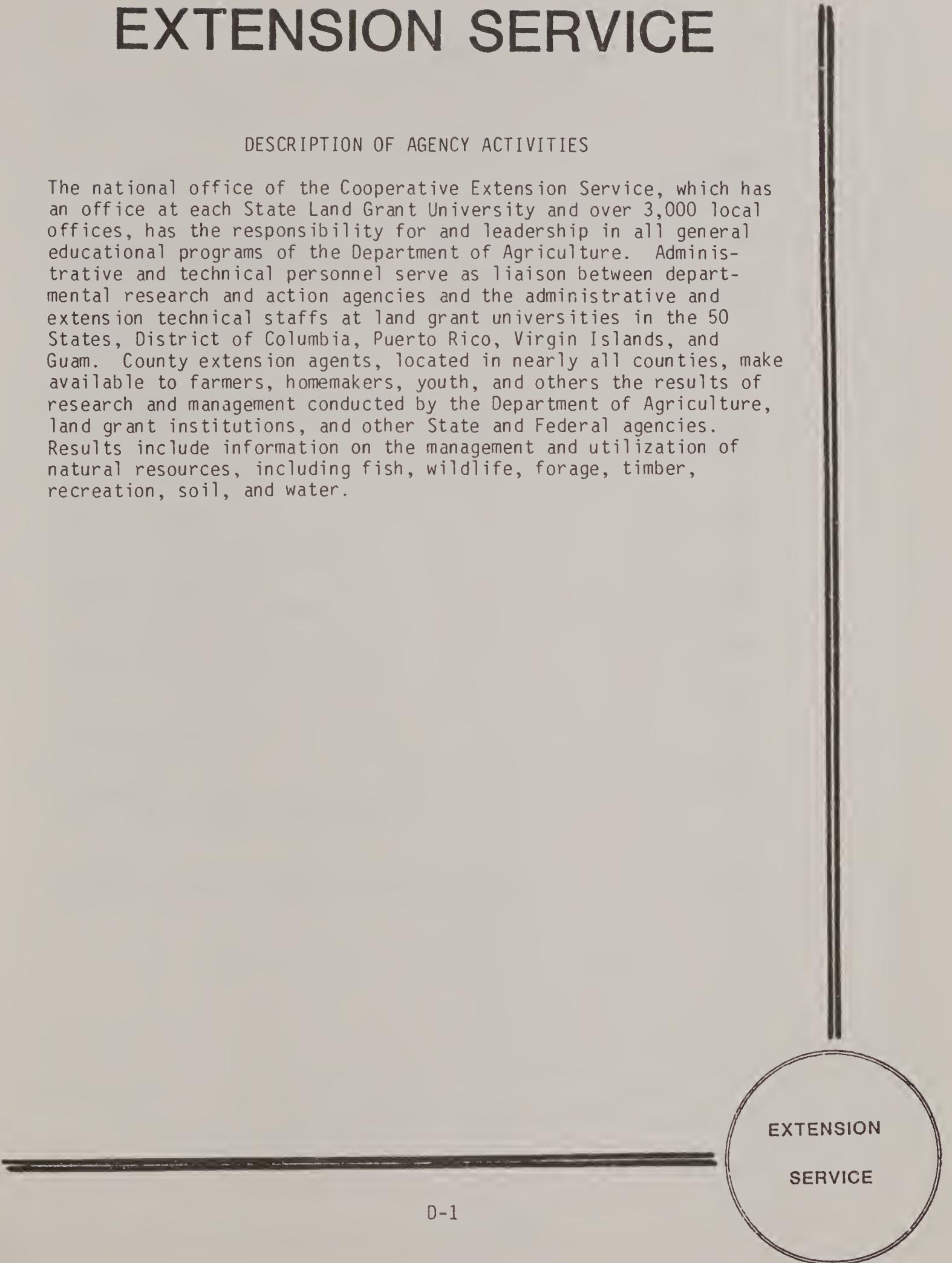
Land Branch/Land Ownership Section

David Moyer	Dept. of Agrl. Econ. Univ. of Wisconsin Room 340, Ag. Hall 1450 Linden Drive Madison, WI 53706	364-5219
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EXTENSION SERVICE

DESCRIPTION OF AGENCY ACTIVITIES

The national office of the Cooperative Extension Service, which has an office at each State Land Grant University and over 3,000 local offices, has the responsibility for and leadership in all general educational programs of the Department of Agriculture. Administrative and technical personnel serve as liaison between departmental research and action agencies and the administrative and extension technical staffs at land grant universities in the 50 States, District of Columbia, Puerto Rico, Virgin Islands, and Guam. County extension agents, located in nearly all counties, make available to farmers, homemakers, youth, and others the results of research and management conducted by the Department of Agriculture, land grant institutions, and other State and Federal agencies. Results include information on the management and utilization of natural resources, including fish, wildlife, forage, timber, recreation, soil, and water.



EXTENSION
SERVICE

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Washington Office:

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NELSON, DONALD E. Wood Products & Forest Economics	447-5119
GREY, GENE W. Forest Management	447-5119
MILLER, JIM Fish & Wildlife Management	447-5468
SWADER, FRED Environmental Quality	447-5468
WEBER, ANDY Natural Resources Evaluation	447-2506
MERKEL, DAN Range Management	447-2506
WESTBROOK, FRED Soil and Water Conservation	447-5285
VACANT Public Affairs, Land Use Policy & Energy	447-2506

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----------------------------------------------	-----------------------------------------------------------------------------------	--------------------------

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Roy S. Rauschkolb Director, Coop. Ext. Serv.	Col. of Agricultural Extension Service University of Arizona Tucson, Arizona 85721	602-626-2711
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Arkansas

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August 1982
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T. K. Page, Director Coop. Ext. Serv.	University of D.C. 929 E St., N.W., Room 514 Washington, D.C. 20004	202-727-2002
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---------------------------------------------	-----------------------------------------------------------	--------------

Minnesota

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(ES)

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G. L. VandeBerg, Director
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FOREST SERVICE

DESCRIPTION OF AGENCY ACTIVITIES

The major responsibility of Forest Service research is to provide the information needed to manage and protect forest and related lands, gain maximum benefit from their use, and leave the environment unspoiled.

Forest Service research addresses a variety of problems associated with complex land management challenges. The program includes research in seven broad areas:

1. Timber management.
2. Fire and atmospheric sciences.
3. Forest insects and diseases.
4. Renewable resources evaluation and economics.
5. Forest products utilization and engineering.
6. Environmental research including range, wildlife, and fish habitat; watershed management; surface mine land rehabilitation; and recreation.
7. International forestry programs.

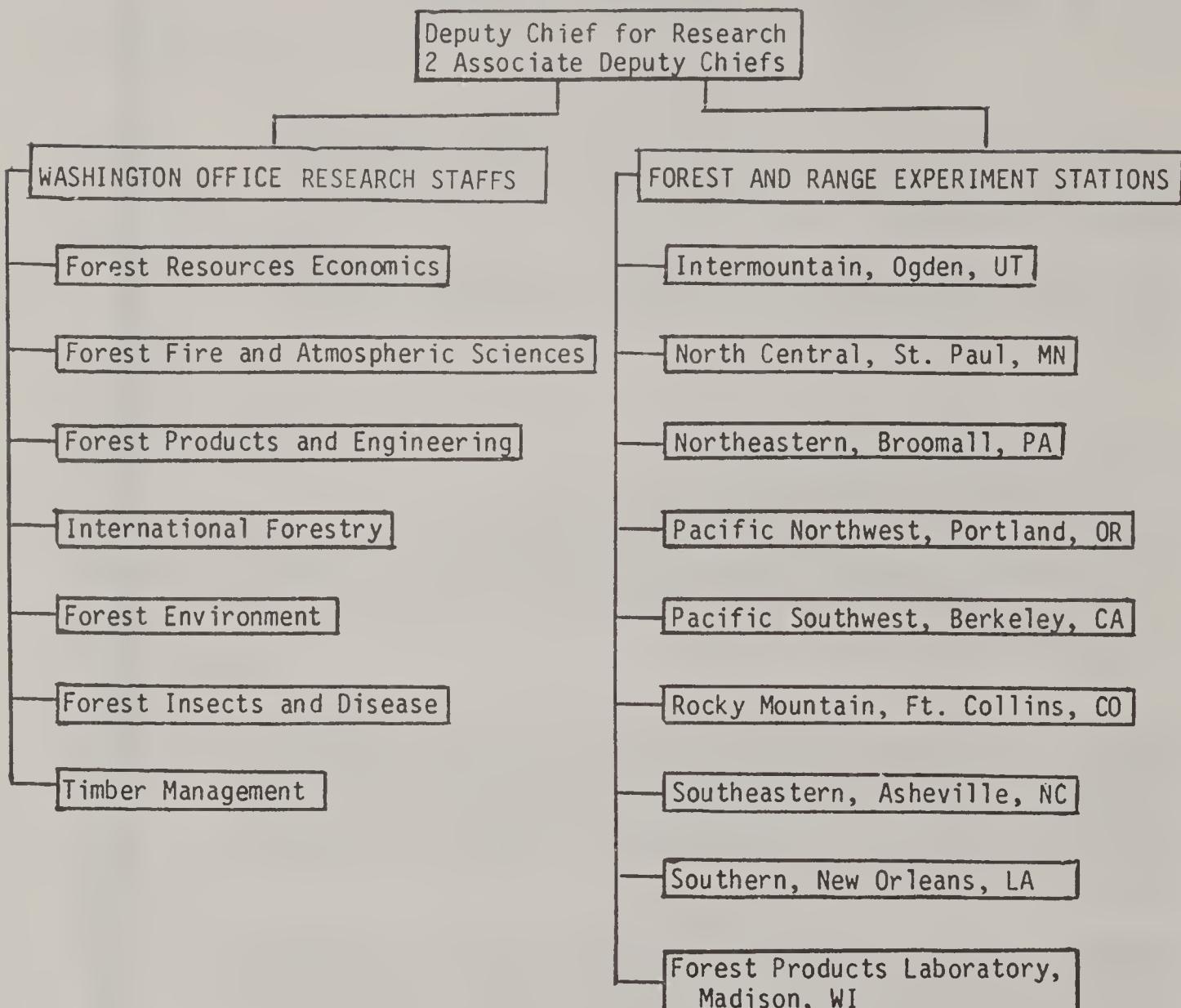
Research is coordinated by the Forest Service Deputy Chief for Research, and seven functional Washington Office staff groups. Programs are administered through eight Experiment Stations and the Forest Products Laboratory in Madison, WI. Research is done by a total of 270 Research Work Units (RWUs) at 81 locations throughout the United States and its territories.

The RWU is the basic organizational element through which each Experiment Station Director, his Assistant Directors, and Washington Office Staff Directors carry out research programs. Each Unit has a Project Leader or Program Manager who leads a staff of scientists and technicians to solve problems related to the Unit's 5-year mission. This mission is achieved through solving one or more research problems assigned to a Unit; one or more studies are typically required to solve a RWU problem. At the present time, 970 scientists on 270 Research Units are working on 800 individual problems, involving 4300 separate studies.

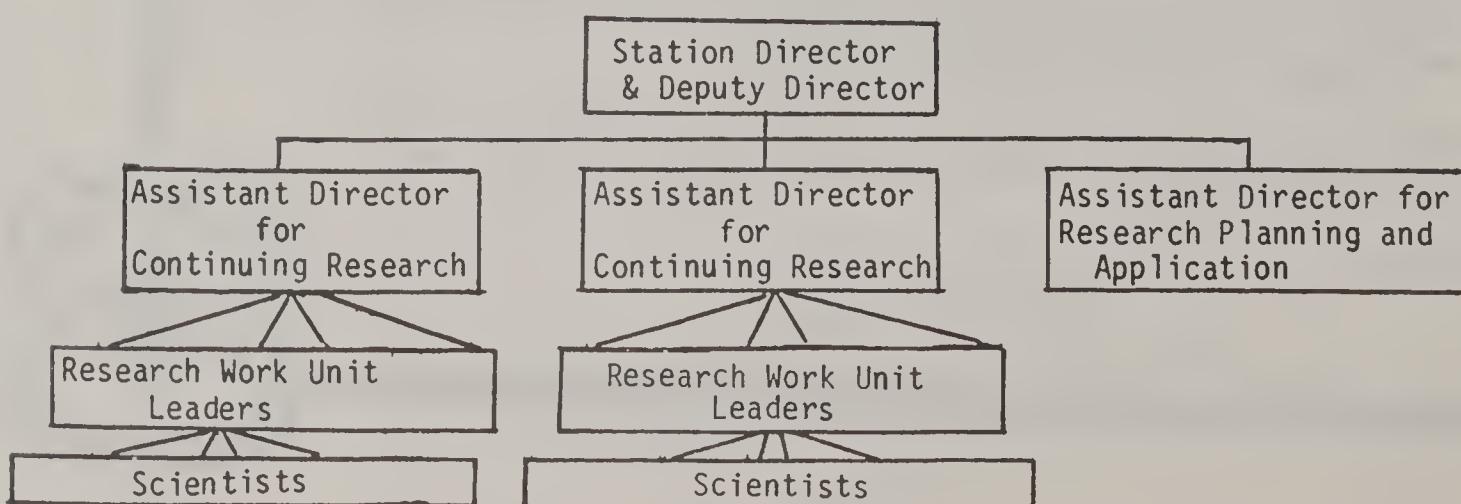
Experiment Station boundaries, major research locations, and the overall organization of Forest Service Research are described in the following Directory.



RESEARCH ORGANIZATION CHART
FOREST SERVICE



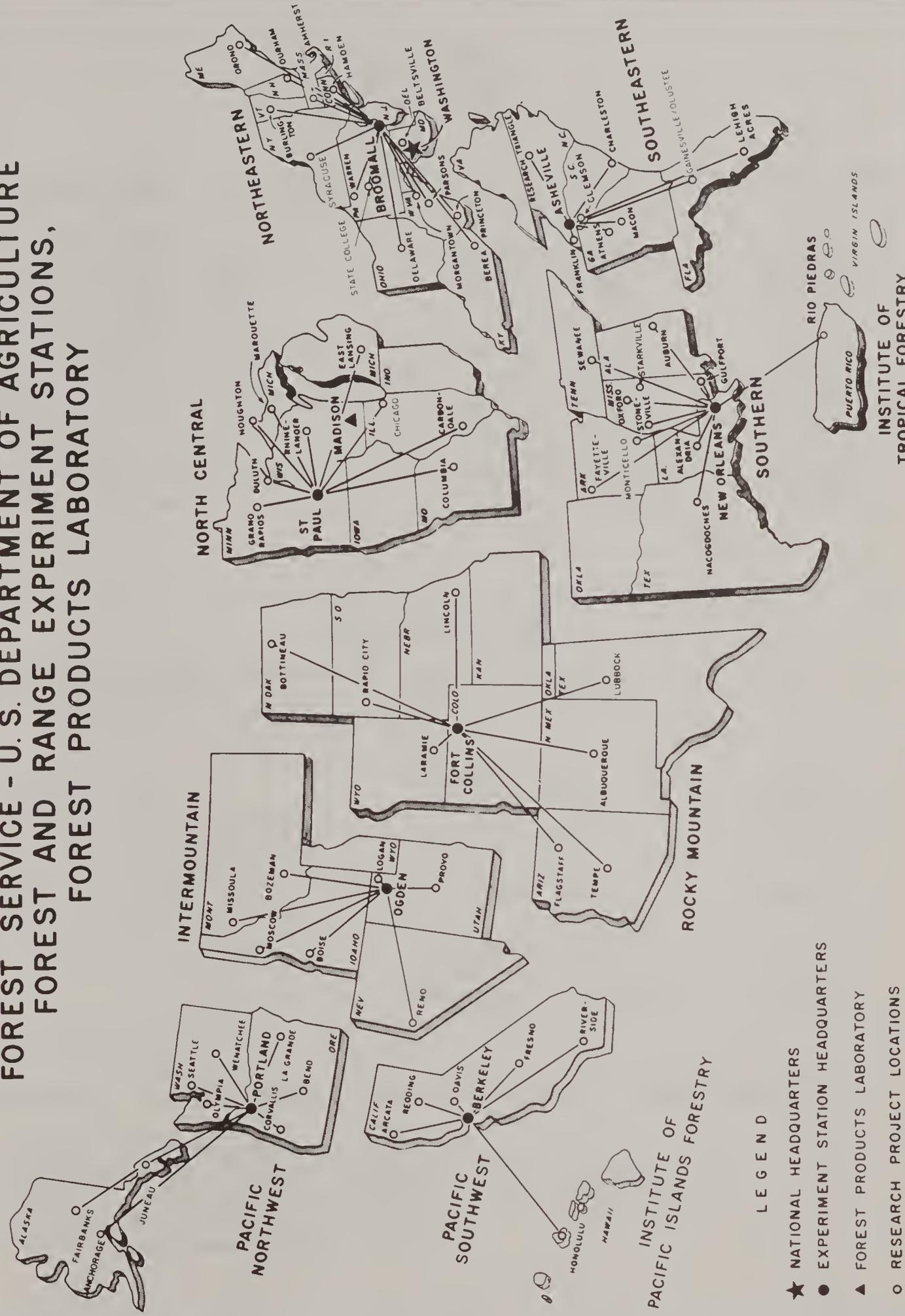
STATION ORGANIZATION



FOREST SERVICE - U. S. DEPARTMENT OF AGRICULTURE
FOREST AND RANGE EXPERIMENT STATIONS,
FOREST PRODUCTS LABORATORY

REGIONAL MAP
FOREST SERVICE

August 1982
(FS)



August 1982
(FS)

DIRECTORY
FOREST SERVICE

WASHINGTON OFFICE, USDA Forest Service, P.O. Box 2417, Washington, D.C. 20013

Deputy Chief Staff:

Deputy Chief for Research	Robert E. Buckman	447-6665
Associate Deputy Chief	Keith R. Shea	447-4507
Associate Deputy Chief	F. Bryan Clark	447-2702

Research Staff Directors:

Forest Resources Economics	Ross S. Whaley	447-2747
Forest Fire and Atmospheric Sciences	Craig C. Chandler	235-8195
Forest Products and Engineering	John R. Erickson	447-5653
International Forestry	Robert W. Brandt	447-5748
Forest Environment	Ronald D. Lindmark	235-1071
Forest Insect and Disease	Gerald W. Anderson	235-8065
Timber Management	Stanley L. Krugman	235-8200

EXPERIMENT STATIONS

INTERMOUNTAIN STATION, 507 25th St., Ogden, UT 84401

(Research programs in ID, MT, NV, and UT)

Director	Roger R. Bay,	586-5412
Deputy Director	Carter B. Gibbs	586-5412
Asst. Sta. Dir., Research		
Planning and Application	Keith E. Evans	586-5411
Asst. Sta. Dir. for		
So. ID, UT, and NV	R. Duane Lloyd	586-5417
Asst. Sta. Dir. for		
MT, No. ID	Richard G. Krebill	
	Drawer G	
	Missoula, MT 59806	585-3320

Units by Location:

Missoula, MT. Forestry Sciences Laboratory, Drawer G, 59806 (585-3533)

Timber Utilization, Ronald L. Barger
Wood Resource Utilization, Ronald L. Barger (Acting)
Economics of Multiple Use Management, Ervin G. Schuster
Forest Wildlife Habitat, L. Jack Lyon
Wilderness Management, Robert C. Lucas

Missoula, MT. Northern Forest Fire Laboratory, Drawer G, 59806

R&D Fire Effects and Use, James E. Lotan (585-3473)
Fire Occurrence, Donald M. Fuquay (585-3493)
Fire Technology, Charles W. George (585-3478)
Fire Behavior, Richard C. Rothermel (585-3463)
Fire Effects and Use, James K. Brown (585-3467)
Synthesizing Fire Management Techniques, Bruce M. Kilgore (585-3499)

Bozeman, MT. Forestry Sciences Laboratory, MT State Univ., 59717 (585-4242)

Forest Management Engineering, Edward R. Burroughs
Subalpine Forest Silviculture, Wyman C. Schmidt

Boise, ID. Forestry Sciences Laboratory, 316 E. Myrtle St., 83702 (554-1457)

Minimize Nonpoint Source Pollution, Walter F. Megahan
Douglas-Fir and Ponderosa Pine Ecosystems, Russell A. Ryker

Logan, UT. Forestry Sciences Laboratory, 860 N. 12th East, 84321 (586-5577)

Mine Spoil Reclamation, Eugene E. Farmer
Management of Western Aspen, Walter F. Mueggler

Moscow, ID. Forestry Sciences Laboratory, 1221 S. Main, 83843 (208-882-3557)

Cedar, Hemlock, Grand Fir Silviculture and Diseases, Alan E. Harvey
Genetics and Pest Resistance of Conifers, Raymond J. Hoff
Quantitative Analysis of Forest Management, Albert R. Stage

Ogden, UT. 507 25th Street, 84401

Mountain Pine Beetle, Walter E. Cole (586-5393)
Resources Evaluation, Dwane D. Van Hooser (586-5388)

Provo, UT. Shrub Sciences Laboratory, 735 N. 500 E., 84601 (584-0218)

Management of Shrub-herb Rangelands, Warren P. Clary
Shrub Improvement and Revegetation, Arthur R. Tiedemann

Reno, NV. Col. of Agr., Univ. of NV, 920 Valley Road, 89512 (470-5329)

Management of Pinyon-juniper Woodlands, Richard O. Meeuwig.

NORTH CENTRAL STATION, 1992 Folwell Ave., St. Paul, MN 55108

(Research programs in IL, IN, IA, MI, MN, MO, WI)

Director	Robert A. Hann	784-0249
Deputy Director	Richard V. Smythe	784-0249
Asst. Sta. Dir., Research Planning and Application	Roger W. Leonard	784-0252
Asst. Sta. Dir. for MN and WI	Arne K. Kemp	784-0292
Asst. Sta. Director for IA, IL, IN, MI, and MO	Frank E. Biltonen	784-0243

Units by Location:

Carbondale, IL. Forestry Sciences Laboratory, So. IL Univ., 62901 (958-6695)

Management of Fine Hardwoods, Richard C. Schlesinger
Processing Hardwoods, Howard N. Rosen

Chicago, IL. 5601 N. Pulaski Road, 60646 (886-3217)

Urban Forest Recreation, John F. Dwyer, Jr.

Columbia, MO. 1-26 Agriculture Bldg., Univ. of Missouri, 65211 (276-5341)

Silviculture of Oak-Hickory Forests, Ivan L. Sander
Land Use Impacts on Wildlife Habitats, James M. Sweeney

Duluth, MN. 118 Main Bldg., Univ. of Minnesota, 23rd Ave. and East 5th St.,
55812 (783-9314)

Forest Resource Marketing, Edwin Kallio

East Lansing, MI. Stephen S. Nisbet Bldg., 1407 S. Harrison Road, Michigan
State Univ., 48823 (375-7740)

Fire Management Planning, Albert J. Simard
Insects of Forest Plantation, Louis F. Wilson

Houghton, MI. Forestry Sciences Laboratory, Michigan Technological Univ.,
49931 (906-482-6303; thru FTS-8-226-6000)

Forest Engineering Systems, Rodger A. Arola

Grand Rapids, MN. Forestry Sciences Laboratory, 1831 Hwy. 169 E., 55744
(784-0345)

Aspen-Birch-Conifer Research and Development Program, W. Reid Goforth
Management of Northern Conifers and Aspen, John W. Benzie
Water Quality Management, Elon S. Verry

Rhinelander, WI. Forestry Sciences Laboratory, Box 898, 54501 (715-362-7474;
thru FTS 8-362-1012)

Physiology of Wood Formation, Philip R. Larson,
Intensively Cultured Plantations, Edward A. Hansen
Genetics of Northern Forest Trees, Hans Nienstaedt
Increasing Production of High Value Species, Thomas R. Crow

St. Paul, MN. 1992 Folwell Ave., 55108

Diseases of Forest Plantations, Thomas H. Nicholls (784-0278)
Resources Evaluation, Burton L. Essex (784-0297)
Evaluating Forest Resource Management, Lewis F. Ohmann (784-0299)
Wildlife Habitat Management, Richard R. Buech (784-0234)
Backcountry River Recreation, David W. Lime (784-0234)

NORTHEASTERN STATION, 370 Reed Rd., Broomall, PA 19008

(Research programs in CT, DE, KY, ME, MD, MA, NH, NJ, NY, OH, PA, RI, VT, WV)

Director	Denver P. Burns	489-3008
Deputy Director	Robert Romancier	489-3009
Asst. Sta. Dir., Research Planning and Application	Ronald J. Glass	489-3011
Asst. Sta. Dir. for OH and PA	Albert N. Foulger	614-369-4471
Asst. Sta. Dir. for KY, MD and WV	Robert Phares	923-7488
Asst. Sta. Dir. for CT, ME, MA, NH, NJ, NY and VT	David T. Funk	834-0797

Units by Location:

Amherst, MA. Hilton House, University of Mass., 01003 (413-549-0520)

Wildlife Research, Richard M. DeGraaf

Berea, KY. Route 2, Highway 21 East, Forestry Sciences Lab., 40403
(606-986-8431)

Reclamation of Surface-Mined Areas, Willie R. Curtis

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Broomall, PA. 370 Reed Rd., 19008

Regional Forest Resource Economics, David A. Gansner (489-3045)
Forest Resources Evaluation, Joseph S. Barnard (489-3037)

Burlington, VT. George D. Aiken Sugar Maple Lab., 705 Spear St., Box 968,
05402 (832-6771)

Maple Syrup Marketing & Wood for Energy, Paul E. Sendak
Trend Indicators of Outdoor Recreation, Wilbur F. LaPage
Culture and Morphogenesis of Meristems, Robert A. Gregory

Delaware, OH. Forestry Sciences Lab., Box 365, 43015 (614-369-4471)

Management and Utilization of Nonindustrial Private Forests, Neal P.
Kingsley
Insects and Diseases of Hardwoods, Frederick H. Berry
Effects of Air Pollution on Trees, Leon S. Dochinger
Insect Vectored Diseases of Trees, Garold F. Gregory

Durham, NH. Forestry Sciences Lab., Concord-Mast Rd., Box 640, 03824 (834-0797)

Decay in Forest Trees, Alex L. Shigo
Impact of Forest Management on Watersheds, Robert S. Pierce
Management of Northern Hardwood Forests, Carl H. Tubbs
Genetic Improvement of Northeastern Trees, Peter W. Garrett
Backcountry Recreation Management, Raymond E. Leonard

Hamden, CT. Forest Insect and Disease Lab., 51 Mill Pond Rd., 06514 (645-2021)

Northeastern Forest Insect Pests, William E. Wallner
Control of Eastern Defoliating Insects, Franklin B. Lewis
Diebacks and Declines, David R. Houston

Morgantown, WV. Forestry Sciences Laboratory, 180 Canfield St., 26505,
(923-4483)

Hardwood Timber Harvesting, Penn A. Peters

Orono, ME. USDA Bldg., Univ. of Maine, 04469 (833-7388)

Culture of Northeastern Spruce-Fir Forests, Barton M. Blum

Parsons, WV. Timber and Watershed Lab., Box 445, 26287 (923-5338)

Water Resource Protection, J. David Helvey
Culture of Central Appalachian Hardwoods, Henry C. Smith

Princeton, WV. Forestry Sciences Lab., Box 152, 24740 (924-4553)

Increased Supply of Hardwood Raw Materials, Donald G. Cuppett
Low-grade Hardwoods Utilization, Charles J. Gatchell
Productivity of Forest Industry in the NE, Gilbert P. Dempsey

Syracuse, NY. c/o State University of New York, College of Environmental Science and Forestry, 13210 (315-470-6729)

Management of Urban Forestry Ecosystems, Rowan Rountree
University Park, PA. Pennsylvania State University, Academic Projects Bldg., Rm. 104, 16802 (814-863-1933)

Amenities and Municipal Watersheds, Howard G. Halverson
Warren, PA. Forestry Sciences Lab., Box 928, 16365, (814-563-7587)
Management of Cherry-Maple and Oak Forests, David A. Marquis

PACIFIC NORTHWEST STATION, 809 NE 6th Ave., Portland, OR 97232

(Research programs in AK, OR and WA)

Director	Robert L. Ethington	429-2052
Deputy Director	Glenn A. Cooper	429-2052
Asst. Sta. Dir., Research Planning and Application	Eldon M. Estep	429-2059
Asst. Sta. Dir., Continuing Research Central	Donald F. Flora	429-2055
Asst. Sta. Dir., Continuing Research North	Kenneth H. Wright	429-2057
Asst. Sta. Dir., Continuing Research South	Don H. Boelter (Corvallis, OR)	420-4381

Units by Location:

Anchorage, AK. Forestry Sciences Laboratory, 2221 E. Northern Lights Blvd., Suite 106, 99504 (907-272-5502)

Renewable Resources Evaluation, Vernon J. LaBau

Bend, OR. Silviculture Laboratory, 1027 NW Trenton Ave., 97701 (422-6283)

Culture of Forests of Eastern OR & WA, Robert E. Martin

Corvallis, OR. Forestry Sciences Laboratory, 3200 Jefferson Way, 97331

Impacts of Forest Management Decisions, Con H. Schallau (420-4413)
Anadromous Fish Habitat, Fred H. Everest (420-4390)
PNW Reforestation Systems, Peyton W. Owston (420-4343)
Management of Northwestern Coniferous Forests, Jerry F. Franklin (420-4362)
Genetic Improvement of Douglas-Fir, Roy R. Silen (420-4339)

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Soil Stability Streamflow and Introduced Chemicals in Forests, Logan A. Norris (420-4387)

Managing Western Forest Insects, Gary E. Daterman (420-4334)

PNW Forest Diseases, Earl E. Nelson (420-4416)

Mycorrhizal Applications in Ecosystem Management, James M. Trappe (420-4402)

Fairbanks, AK. Institute of Northern Forestry, 99701 (907-474-7443)

Management of Taiga-Interior Alaska, C. Theodore Dyrness

Juneau, AK. Forestry Sciences Laboratory, Box 909, 99802 (907-586-7301)

Ecology of Southeastern Alaska Forests, Donald C. Schmieg
Anadromous Fish Habitat, William R. Meehan

LaGrande, OR. Range and Wildlife Habitat Laboratory, C Ave. and Gekeler Lane, Rt. 2, Box 2315, 97850 (503-963-7122)

Wildlife Habitat and Range, Jack W. Thomas
Integrated Pest Management, Boyd E. Wickman

Olympia, WA. Forestry Sciences Laboratory, 3625 93rd Ave. SW, 98502

Intensive Culture of Douglas-Fir, Dean S. DeBell (434-9470)

Old Growth Forest Wildlife Habitat, Leonard R. Ruggiero (434-9494)

Portland, OR. 809 NE 6th Ave., 97232

Forest Residues and Energy Program, Richard O. Woodfin (429-2030)

Canada/U.S. Spruce Budworms Program, Ronald W. Stark (429-2034)

Economics of Forest Land Management, Roger D. Fight (429-2086)

Foreign Trade Analysis, David R. Darr (429-2088)

Renewable Resources Evaluation, John Poppino (429-2117)

Quality and Yield Potential of Western Softwoods, Thomas A. Snellgrove (429-2106)

Seattle, WA. Forestry Sciences Laboratory, Fourth & Vine Bldg., 4th Floor, 2615 4th Ave., 98101

Forest Engineering Systems, Charles N. Mann (399-7814)

Wildland Recreation, Roger N. Clark (399-7817)

Wenatchee, WA. Forestry Sciences Laboratory, 1133 N. Western Ave., 98801 (390-0315)

Productivity of Upper Slope Resources, Paul J. Edgerton

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PACIFIC SOUTHWEST STATION, 1960 Addison St., Box 245, Berkeley, CA 94701
(Research programs in CA and HI)

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Deputy Director	Paul C. Guilkey	449-3326
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Asst. Sta. Dir., Continuing Research for North. CA	Benjamin Spada	449-3436
Asst. Sta. Dir., Continuing Research for South. CA and HI	Charles W. Philpot	796-6537

Units by Location:

Arcata, CA. Redwood Sciences Laboratory, 1700 Bayview Dr., 95521 (450-5318)

Management of Forests on Unstable Land, Raymond M. Rice
Integrated Management of Northwestern California Forests, C. J. Ralph

Berkeley, CA. 1960 Addison St., Box 245, 94701

Genetics of Western Forest Trees, F. Thomas Ledit (449-3134)
Management of Urban Forests, J. Alan Wagar (449-3567)
Snow Zone Hydrology-California, Neil H. Berg (449-3456)
Insects Affecting Conifers, Michael I. Haverty (449-3372)
Fundamentals of Integrated Pest Management, Jacqueline L. Robertson
(449-3107)

Davis, CA. 2810 Chiles Rd., 95616 (448-3445)

Evaluation of Chemical Insecticides, Patrick J. Shea

Fresno, CA. 2081 E. Sierra Ave., 93710 (467-5194)

Range Management Research, John G. Kie
Protection of Sensitive Species, Jared Verner

Honolulu, HI. Institute of Pacific Islands Forestry, 1151 Punchbowl St.,
Rm. 323, 96813 (808-546-5669)

Hawaii Forest Insect and Diseases, Charles S. Hodges
American Pacific Islands Forest Research, Craig D. Whitesell
Timber and Watershed Management, Roger G. Skolmen

Redding, CA. 2400 Washington Ave., 96001 (450-5455)

Silviculture of Sierra Nevada Conifers, R. J. Laacke

August 1982
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Riverside, CA. Forest Fire Laboratory, 4955 Canyon Crest Dr., 92507

Fire Management and Economics, Thomas J. Mills (796-1501)
Forest Fire Meteorology, Michael A. Fosberg (796-1473)
Wildfire Prevention, David F. Olson, Jr. (796-1473)
Prescribed Burning Research, (vacant)

ROCKY MOUNTAIN STATION, 240 W. Prospect, Fort Collins, CO, 80526

(Research programs in AZ, CO, KS, NE, NM, ND, SD, TX, WY)

Director	Charles M. Loveless	323-1270
Deputy Director	Dixie R. Smith	323-1292
Asst. Sta. Dir., Research Planning and Application	Jay S. Krammes	323-1293
Asst. Sta. Dir., Research Programs in AZ, CO, KS, NE, ND, SD, and WY	Clyde A. Fasick	323-1316
Asst. Sta. Dir., Research Programs in AZ, CO, NM, and TX	Ed F. Wicker	261-4365

Units by Location:

Albuquerque, NM. 2205 Columbia, S.E., 87106

Disturbed Site Reclamation in the Southwest, Earl F. Aldon (474-2384)

Flagstaff, AZ. Forestry Sciences Laboratory, Northern Arizona University,
86001 (261-1521)

Culture of Southwestern Conifers, Frank Ronco, Jr.
Multiresource Evaluation and Improvement, Lawrence D. Garrett

Fort Collins, CO. 240 W. Prospect, 80526 (303-221-4390)

Resource Management Planning, Thomas W. Hoekstra (323-1265)
Techniques for Activity Level Fire Planning, Peter J. Roussopoulos
(323-1298)
Forest Meteorology and Air Quality, Douglas G. Fox (323-1211)
Tree Diseases in the Rocky Mountains and Southwest, Frank G. Hawsworth
(323-1246)
Mountain Snow and Avalanche, M. Martinelli, Jr. (323-1207)
Multiresource Management of Montane and Subalpine Zones, Robert R.
Alexander (323-1250)
Multiresource Inventory Techniques, Vacant (323-1209)
Valuation of Wildland Resource Benefits, George L. Peterson (323-1316)

Laramie, WY. 222 S. 22nd St., 82070 (307-742-6621)

Management of Wind Transported Snow, Ronald D. Tabler
Effects of Management on Wildlife, A. Lorin Ward

Lincoln, NE. Forestry Sciences Laboratory, East Campus, University of
Nebraska, 68583 (541-5178)

Protection and Improvement of Trees in the Great Plains, Glenn W. Peterson

Lubbock, TX. Great Plains Wildlife Research Laboratory, Box 4249, Texas Tech
University, 79409 (738-7671)

Wildlife Habitat Management-Southern Great Plains, Fred A. Stormer

Rapid City, SD. Forest Research Laboratory, South Dakota School of Mines and
Technology, 57701 (782-1451)

Multiple Use Management-Northern High Plains, Ardell J. Bjugstad

Tempe, AZ. Forestry Sciences Labortory, Arizona State University, 85287
(261-4365)

Multiresource Management of Chaparral and Mixed Conifer Watersheds,
Leonard F. DeBano

Wildlife Habitat Research in the Southwest, David R. Patton
Fire Effects in Southwestern Forests and Deserts, John H. Dieterich

SOUTHEASTERN STATION, 200 Weaver Boulevard, Asheville, NC, 28804

(Research program in FL, GA, NC, SC, VA)

Director	Eldon W. Ross	672-0758
Deputy Director	Robert L. Scheer	672-0758
Asst. Sta. Dir., Research Planning and Application	Gordon D. Lewis	672-0637
Asst. Sta. Dir., Reseach Programs in Carolinas -Virginia	John C. Hendee	672-0337
Asst. Sta. Dir., Research Programs in Florida-Georgia	Thomas H. Ellis	946-7283

Units by Location:

Asheville, NC. 200 Weaver Boulevard, Asheville, NC, 28804

Renewable Resources Evaluation, Joe P. McClure (672-0616)
Growth of Southern Appalachian Hardwoods, Donald E. Beck (672-0331)
Processing Hardwoods, James G. Schroeder (672-0317)

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Athens, GA. Forestry Sciences Laboratory, Carlton S., 30602

Institute for Mychorrhizal Research, Donald H. Marx (250-2435)
Cone and Seed Insects of Southern Forests, Harry O. Yates, III (250-2467)
Utilization of Southern Timber, Joseph R. Saucier (250-2441)
Wood Products Research, Gerald A. Koenigshof (250-2445)
Diseases of Southern Pine, Harry R. Powers, Jr. (250-2455)
Urban Forestry Research in the South, H. Kenneth Cordell (250-2451)

Charleston, SC. 2730 Savannah Hwy., 29407 (803-556-4860; 677-4271)

Intensive Loblolly Pine Culture R&D Program, Samuel F. Gingrich

Clemson, SC. Southeastern Forest Experiment Station, Clemson Univ., Dept. of Forestry 29631 (672-3284; 803-656-3284)

Endangered and Threatened Wildlife in Southern Forests, Michael A. Lennartz

Management of Piedmont Hardwoods, Douglas R. Phillips

Durham, NC. Duke Univ., School of Forestry, 27706 (629-4221)

Management of Southern Forest Land for Multiple Products, George F. Dutrow
Biological Potential for Timber Production, Stephen G. Boyce (629-5221)

Gainesville, FL. School of Forest Resources and Conservation, University of Florida 32611 (946-7261)

Intensive Management Practice Assessment, Benee F. Swindel
Integrated Pest Management, Thomas Miller

Lehigh Acres, FL. Forest Resource Laboratory, Box 938, 33936 (813-334-4579)

Silviculture of eucalyptus in Florida, Jack Stubbs

Macon, GA. Southern Forest Fire Laboratory, Georgia Forestry Center, Riggins Mill Rd., Box 5106, 31208 (238-0204)

Wildland Fuels, Charles K. McMahon
Fire Science for Southeastern U.S., Von J. Johnson
Forestry Weather Data Systems, James T. Paul

Olustee, FL. Naval Stores and Timber Production Laboratory, Box 70, 32072 (946-2846)

Forest Product Yields: Slash and Longleaf Pines, Susan V. Kossuth
Management Alternatives for Pines Species, Thomas Miller

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SOUTHERN STATION, T-10210, U.S. Postal Service Bldg., 701 Loyola Ave., New Orleans, LA 70113

(Research programs in AL, AR, LA, MS, OK, TN, TX, PR)

Director	Laurence E. Lassen	682-6787
Asst. Sta. Dir., Research Planning and Application	John W. Henley	682-6712
Asst. Sta. Dir., Research East	Robert P. Schultz	682-3003
Asst. Sta. Dir., Research Central	Walter A. Hough	682-3003
Asst. Sta. Dir., Research West	Stanley J. Barras	682-3003

Units by Location:

Alexandria, LA. Alexandria Forestry Center, 2500 Shreveport Hwy., Pineville, LA 71360 (497-7216)

Integrated Pest Management of Bark Beetles of Southern Pines,
Robert C. Thatcher
Silviculture and Intensive Culture of Southern Pines, James P. Barnett
Intensive Culture of Southern Pines, Eugene Shoulders
Range Management of Southern Pine Ecosystems, Henry A. Pearson
Pest Management of Southern Pine Bark Beetles, Peter L. Lorio, Jr.
Processing Southern Woods, R. W. Hemingway (Acting)

Auburn, AL. G. W. Andrews Forestry Sciences Laboratory, Devall Street, Auburn University, AL 36830 (534-4518)

Control of Undesirable Vegetation, William D. Boyer
Forest Engineering Systems, Donald L. Sirois

Fayetteville, AR. 830 Fairview St., 72701 (740-0571)

Multi-Resource Management, Edwin R. Lawson

Gulfport, MS. Forestry Sciences Laboratory, Box 2008 GMF, 39503 (499-2634)

Genetics of Southern Pines, Calvin F. Bey
Control of Wood Biodeterioration, Joe K. Mauldin
Diseases of Southern Pines, Glenn A. Snow

Monticello, AR. Box 3516, 71655 (501-367-3464)

Management Alternatives-Small Forest Properties, James B. Baker

Nacogdoches, TX. Box 7600, SFA Station, 75962 (713-569-7981)

Wildlife Habitat and Timber Resources, James G. Dickson

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New Orleans, LA. T-10210, U.S. Postal Service Bldg., 701 Loyola Ave., 70113

Legal, Tax and Economic Influences on Forest Management, William C. Siegel
(682-6652)

Renewable Resources Evaluation, Roy C. Beltz (682-6784)

Oxford, MS. Forest Hydrology Laboratory, Box 947, 38655 (601-234-2744)

Hydrologic Evaluation of Forest Management, Stanley J. Ursic

Rio Piedras, PR. USDA Forest Service, Southern Forest Experiment Station,
University of Puerto Rico, Agricultural Experiment Station, Box AQ, 00928
(809-753-4335)

Tropical American Forest Management, Ariel E. Lugo

Sewanee, TN. Silviculture Laboratory, SPO Box 1290, 37375 (615-598-5854)

Integrated Resource Management, Charles E. McGee

Starkville, MS. Forestry Sciences Laboratory, Box 906, 39759 (490-4509;
601-323-8162)

Eastern Forest Tree Seed Technology, Franklin T. Bonner
Genetics and Breeding-Southern Hardwoods, John A. Pitcher
Fire Prevention Technology, Max L. Doolittle

Stoneville, MS. Southern Hardwoods Laboratory, Box 227, 38776 (497-2404;
601-686-7218)

Management of Southern Hardwoods, Robert L. Johnson
Southern Hardwood Insects and Diseases, Theodore H. Filer, Jr.

FOREST PRODUCTS LABORATORY, Gifford Pinchot Dr., Box 5130, Madison, WI 53705
(364-pTus ext.; 608-264-5600)

Director	Robert L. Youngs	364-5718
Deputy Director	George G. Marra	364-5719
Asst. Sta. Dir., Research Planning and Application	Gary R. Lindell	364-5716
Asst. Sta. Dir., Process and Protection Research	George A. McSwain	364-5862
Asst. Sta. Dir., Chemistry and Paper Research	John W. Koning, Jr.	364-5878
Asst. Sta. Dir., Engineering and Economics Research	Billy Bohannan	364-5672

Units at Location:

Madison, WI, Gifford Pinchot Dr., Box 5130, Madison, WI 53705

Descriptive Anatomy of Wood (Pioneering Research), B. Francis Kukachka (364-5730)
Energy & Chemical Production from Wood (RD&A Program), John I. Zerbe (364-5753)
Center for Forest Mycology Research, (Vacant) (364-5635)
Biodegradation of Wood, Wallace E. Eslyn (364-5610)
Improved Adhesive System, Robert H. Gillespie (364-5861)
Protection of Wood Used in Adverse Environments, Rodney C. DeGroot (364-5867)
Structural Composite Products, John A. Youngquist (364-5790)
Center for Wood Anatomy Research, Regis B. Miller (364-5741)
Design Criteria for Corrugated Fiberboard, James F. Laundrie (364-5673)
Criteria for Fiber Product Design, Vance C. Setterholm (364-5877)
High-Yield Nonpolluting Pulping, James L. Minor (364-5851)
Wood Fiber Product and Process Development, Donald J. Fahey (364-5834)
Chemical Utilization of Wood, John W. Rowe (364-5868)
Analytical Laboratory, Roger C. Petterson (364-5875)
Microbial Technology in Wood Utilization, T. Kent Kirk (364-5855)
Quality and Yield Improvement in Wood Processing, Robert R. Maeglin (364-5746)
Improvements in Drying Technology, William T. Simpson (364-5757)
Engineering Properties of Wood, B. Alan Bendtsen (364-5710)
Engineering Design Criteria, Jen Y. Liu (364-5670)
Engineered Wood Structures, Russell C. Moody (364-5627)
Fire Design Engineering, (Vacant) (364-5669)
Engineering Mechanics Laboratory, Curtis C. Peters (364-5621)
Load Duration Design Criteria, Joseph Murphy (364-5664)
National Timber and Wood Products Requirements and Utilization Economics, Robert N. Stone (364-5763)

SOIL CONSERVATION SERVICE

DESCRIPTION OF AGENCY ACTIVITIES

The Soil Conservation Service has research responsibilities for soil survey and for the operation of Plant Materials Centers. Research activities in soil survey support the National Cooperative Soil Survey. Research activities at the Plant Materials Centers lead to new and improved planting stock for use in conservation plantings.

Several research related functions are also conducted by the Soil Conservation Service. These include conducting soil surveys in the field, inventory, and monitoring of the Nation's agricultural resources, snow surveys and water supply forecasting, and resource appraisal functions.

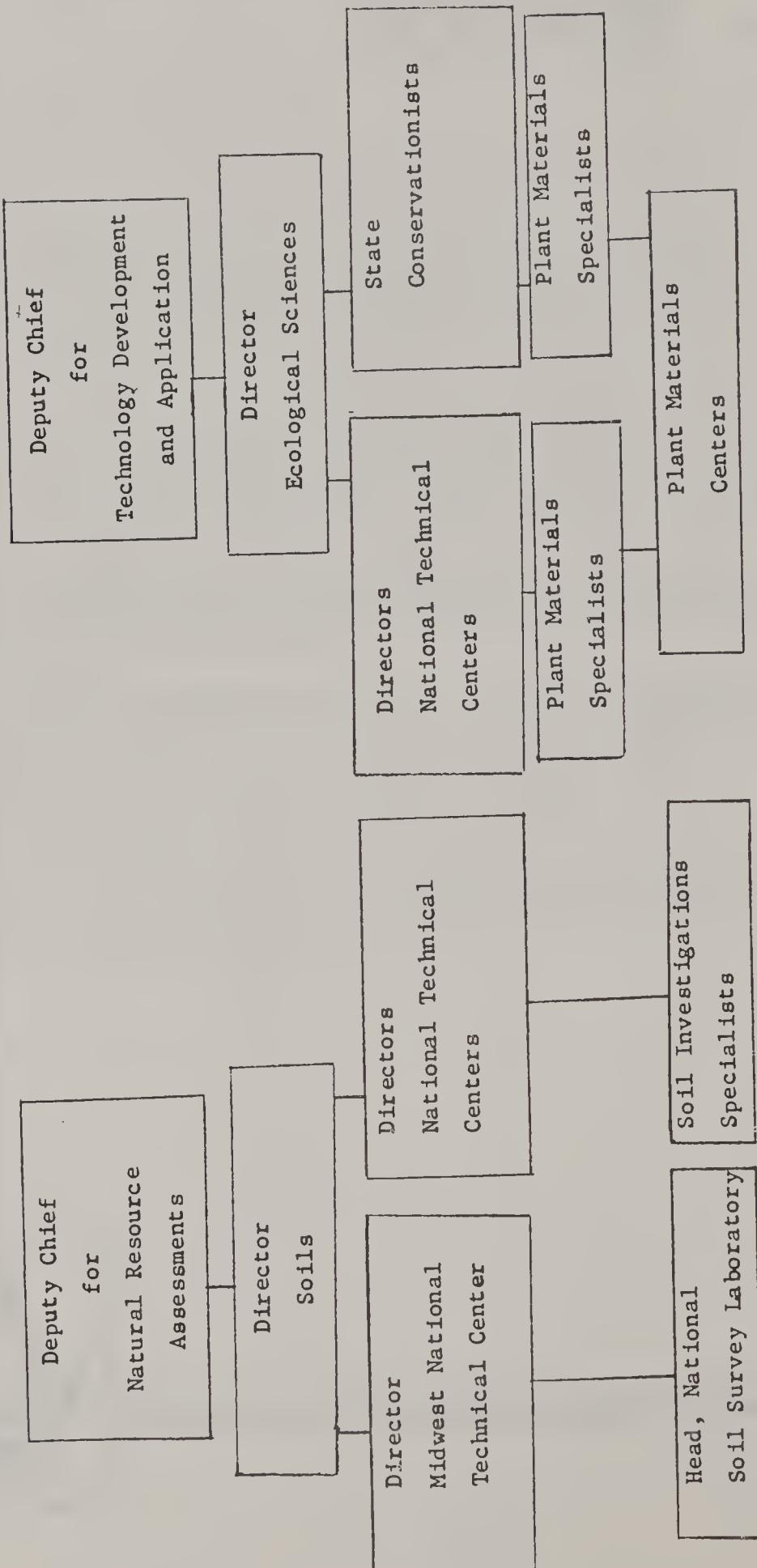
Research is coordinated by Soil Conservation Service Deputy Chief's for Natural Resource Assessments and for Technology Development and Application.

Soil Conservation Service research activities are further described in the following Directory.



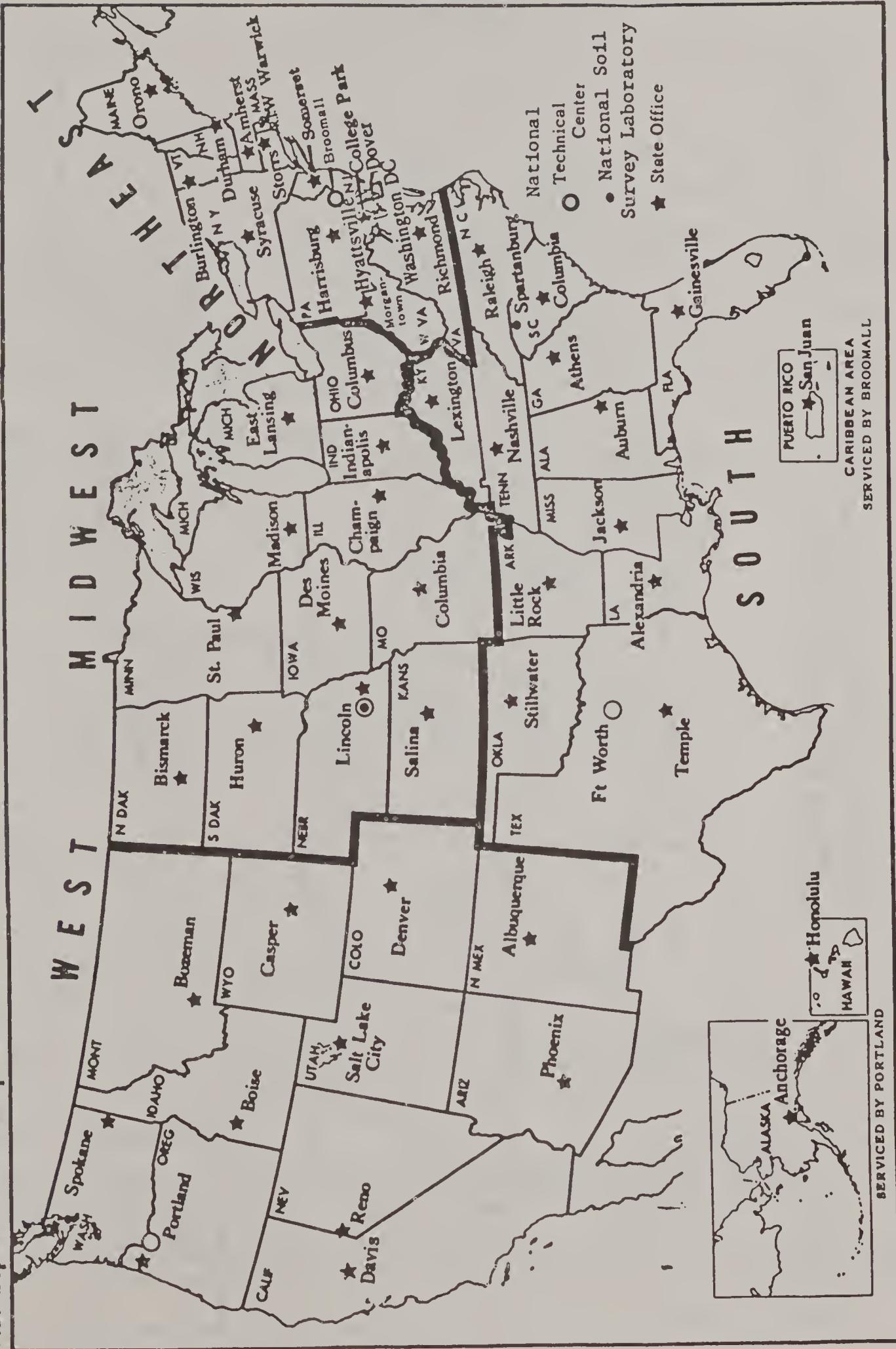
ORGANIZATION CHART
SOIL CONSERVATION SERVICE

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Soil Survey Research

Plant Materials Selection and Release of Conservation Plants

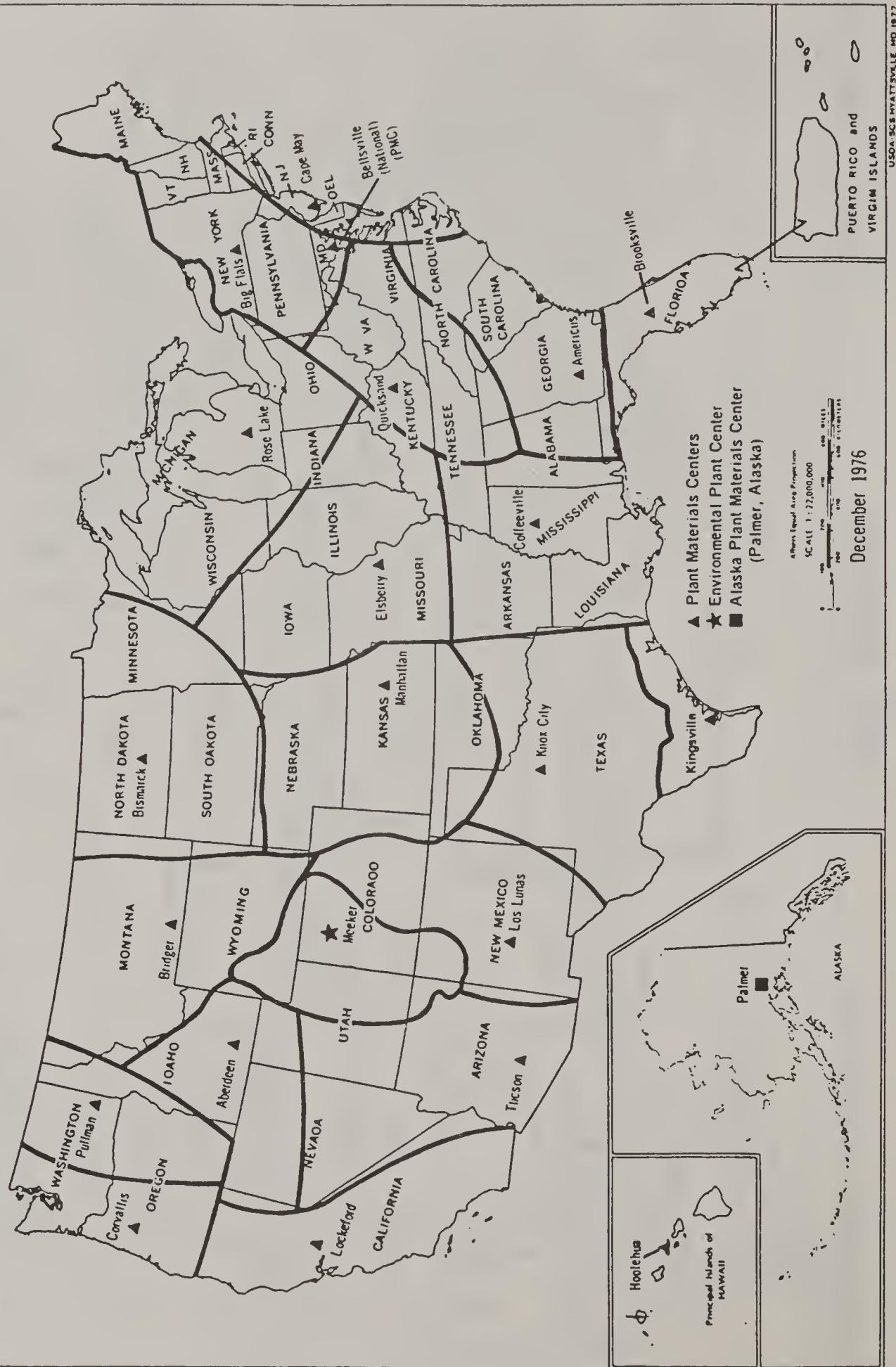


Location and Service Areas of Plant Materials Centers

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

REGIONAL MAP - PLANT MATERIALS CENTERS
SOIL CONSERVATION SERVICE



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D I R E C T O R Y
S O I L C O N S E R V A T I O N S E R V I C E

Soil Survey Research

National Headquarters: Soil Conservation Service
P.O. Box 2890
Washington, D.C. 20013

Deputy Chief, Natural Resource Assessments, Ralph J. McCracken (447-3905)
Associate Deputy Chief, Natural Resource Assessments, Klaus W. Flach (447-5195)
Director, Soil, Richard W. Arnold (382-1819)
National Coordinator, Soil Survey Research, Allen R. Hildebaugh (382-1829)
Soil Characterization Specialist, Milton W. Meyer (382-1832)
Manager, Soil Moisture Project, Richard H. Gilbert (382-1833)
Soil Moisture Project Research Coordinator, Ronald F. Paetzold (334-3490)

National Soil Survey Laboratory:

Federal Building, Room 393
Midwest National Technical Center
Soil Conservation Service
100 Centennial Mall, North
P.O. Box 82503
Lincoln, Nebraska 68401.

Special Field Staff

Mineral Toxicities and Deficiencies:

Joe Kubota, Research Soil Scientist, U.S. Plant, Soil and Nutrition Laboratory, Tower Road, Ithaca, New York 14853 (882-4234)

Geomorphology and Soils:

Robert B. Parsons, West National Technical Center, Room 510, Federal Building, 511 N.W. Broadway, Portland, Oregon 97209 (423-2826)

Erling Gamble, Midwest National Technical Center, Room 393, Federal Building,
100 Centennial Mall, North, P.O. Box 82503, Lincoln, Nebraska 68501 (541-5353)

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Hydrology and Soils:

C. Reese Berdanier, Southeast Watershed Research Laboratory, P.O. Box 946, Tifton, Georgia 31793 (386-3462)

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National Headquarters

Paul M. Howard Neil F. Bogner
Deputy Chief Associate Deputy Chief
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327-5651

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Jackson, Mississippi 39201
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555 Vandiver Road
Columbia, Missouri 65201
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Texas

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Temple, Texas 76501
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Spokane, Washington 99201
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John Oyler
Soil Conservationist
360 U.S. Courthouse
Spokane, Washington 99201
439-3722

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U.S. Courthouse and Federal Building
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Syracuse, New York 13260
950-5520

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Vacant
P.O. Box 27307
Raleigh, North Carolina 27611
672-4318

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Federal Building
P.O. Box 1458
Bismarck, North Dakota 58501
783-4425

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Federal Experiment Station
P.O. Box 1000
Mayaguez, Puerto Rico 00708
(809) 832-4202

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Vacant
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Morgantown, West Virginia 26505
923-7151

Plant Materials Center Managers and Soil Conservationists

Plant Materials Center Manager

Soil Conservationist(s)

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Beltsville, Maryland 20705
344-2175

Bob Glennon
Bill Fry

Alaska

Robert Parkerson
Alaska Plant Materials Center
Star Rt. B, Box 7440
Palmer, Alaska 99645
399-0150 (ask for
(907) 745-4469)

Stoney Wright

Arizona

Jim Briggs
Tucson Plant Materials Center
3241 Romero Road
Tucson, Arizona 85705
762-6491

Vacant

California

Kenneth Croeni
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Gary Young
Rai Clary - Clatrans Project

August 1982
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Sam Stranathan
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Gary Noller

Florida
Don Smith - Acting
Brooksville Plant Materials Center
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Vacant

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Hawaii
Robert J. Joy
Hawaii Plant Materials center
P.O. Box 236
Hoolehua, Hawaii 96729
(808) 567-6378

Larry Shinshiro
Lawrence Yamamoto

Idaho
Charles G. Howard, Jr.
Aberdeen Plant Materials Center
P.O. Box AA
Aberdeen, Idaho 83210
554-1111 (ask for
(208) 397-4181)

Gary Davis
Vern McMaster

Kansas
Bob Dayton
Manhattan Plant Materials Center
Rt. 2, Box 314
Manhattan, Kansas 66502
752-4296

Danny McDonald

August 1982
(SCS)

Kentucky
Charles Gilbert
Quicksand Plant Materials Center
Quicksand, Kentucky 41363
(606) 666-5069

Vacant

Michigan
Ellis G. (Bill) Humphrey
Rose Lake Plant Materials Center
East Lansing, Michigan 48823
(517) 641-6300

Mississippi
B. B. Billingsley
Coffeyville Plant Materials Center
Route 3, Box 215A
Coffeyville, Mississippi 38922
490-4211 (ask for
(601) 675-2588)

Joe Snider

Missouri
Jim Henry
Elsberry Plant Materials Center
P.O. Box 108
Elsberry, Missouri 63343
(314) 898-2012

Steve Brookerhoff

Montana
John G. Scheetz
Bridger Plant Materials Center
Rt. 1, Box 119
Bridger, Montana 59014
585-5011 (ask for
(406) 662-3579)

Mark E. Majerus
Vernon P. Sundberg

New Jersey
Cluster R. Blecher
Cape May Plant Materials Center
Rt. 1, Box 236A
Cape May Courthouse, New Jersey 08210
(609) 465-5901

Don Hamer
Phillip Koch

August 1982
(SCS)

New Mexico
Wendell Oaks
Los Lunas Plant Materials Center
1036 Miller Street, S.W.
Los Lunas, New Mexico 87031
(505) 865-4684 or 4685

Joe Fraser

New York
Donald M. Cattrell
Big Flats Plant Materials Center
P.O. Box 295, Rt. 352
Big Flats, New York 14814
882-2611 (ask for .)
(607) 562-8404

Martin van der Grinten

North Dakota
Russell J. Haas
Bismarck Plant Materials Center
Lincoln Oaks Nursery
P.O. Box 1458
Bismarck, North Dakota 58501
783-4011 (ask for
(701) 223-8536)

Dwight Tober
Dale Darris

Oregon
Jack Peterson
Corvallis Plant Materials Center
3240 N.W. Granger Avenue
Corvallis, Oregon 97330
420-4812

Scott Lambert

Texas
David G. Lorenz
Knox City Plant Materials Center
Route 1, Box 155
Knox City, Texas 79529
729-4011 (ask for
(817) 658-3922)

Jon B. Muncrief

August 1982
(SCS)

South Texas None
Doug Ledbetter
South Texas Plant Materials Center
Caesar Kleberg Wildlife Research Institute
Texas A & I University
P.O. Box 218
Kingsville, Texas 78363
(512) 595-2388

Washington

Clarence Kelley
Pullman Plant Materials Center
Room 257, Jonnson Hall
Washington State University
Pullman, Washington 99163
439-0111 (ask for
(509) 332-2024 - (Office) or
(509) 332-2035 - (Farm)

Wayne Crowder
Frances E. Northam

August 1982

DEPARTMENT OF THE INTERIOR



BUREAU OF LAND MANAGEMENT

DESCRIPTION OF AGENCY ACTIVITIES

The Bureau's primary responsibility in research and development is to support the management, utilization, and conservation of public land resources. Current efforts address a variety of problems associated with multiple-use management of the public lands. The scope of the program includes:

1. Reforestation and related forest management concerns.
2. Wildlife habitat management and the interrelations between wildlife resources and other resource values.
3. Rangeland management, including wildland hydrology, grazing management systems, and classification and monitoring methodologies.
4. The biological basis of wild horse and burro management.
5. The effects of energy and mineral development on watersheds and on other resource values.

The agency does not have a designated research arm or division. Most research is conducted for the Bureau by other agencies or institutions through interagency agreements and contracts. Bureau personnel actually performing research and development tasks are located in various field offices.

The Bureau's research efforts are coordinated nationally by the Resource Sciences Staff, located in Washington, D.C. Each State Field Office has a designated individual who acts as a research coordinator.

Certain research, development, and technology transfer projects are managed or conducted by personnel at the Bureau's Denver Service Center. These projects are principally in the areas of remote sensing, ADP applications and inventory and monitoring methods.

Finally, the Directory lists major research projects that currently have designated project leaders or coordinators at field locations.



DIRECTORY
BUREAU OF LAND MANAGEMENT

National Level Research Coordination

Resource Sciences Staff
Bureau of Land Management (201)
Washington, D.C. 20240
FTS: 653-9200 Commercial: 202/653-9200

Ronald Kuhlman, Chief
Peter Lent, Scientist

State Office Research Coordinators

<u>Name</u>	<u>Address</u>	<u>FTS</u> <u>Phone Number</u>	<u>Area</u>
H. W. (Bill) Gabriel	Alaska State Office 701 C Street, Box 13 Anchorage, AK 99513	8-907-271-5069	AK
Raymond Mapston	Arizona State Office 2400 Valley Bank Rd. Phoenix, AZ 85073	261-3141	AZ
Richard (Butch) Olendorff	California State Office Federal Building 2800 Cottage Way Sacramento, CA 95825	468-4701	CA
Rhio Jackson	Colorado State Office 1037 20th Street Denver, CO 80202	327-3264	CO
Guy Baier	Idaho State Office 550 W. Fort Street Box 042 Boise, ID 83724	554-1484	ID
Jerry Jack	Montana State Office Granite Tower 222 N. 32nd Street Box 30157 Billings, MT 59107	585-6474	MT, ND, & SD
Edward Evatz	Nevada State Office Federal Building Box 12000 Reno, NV 89520	470-5455	NV

August 1982
(BLM)

<u>Name</u>	<u>Address</u>	<u>Phone Number</u>	<u>Area</u>
Robert Schultz	New Mexico State Office South Federal Place Box 1449 Santa Fe, NM 87501	476-6231	NM & OK
George Hartman	Oregon State Office 825 N.E. Multnomah Street Box 2965 Portland, OR 97208	429-6853	OR & WA
James Moorhouse	Utah State Office 136 E. South Temple Salt Lake City, UT 84111	588-5326	UT
Vacant, Contact Chief, Div. Resources	Wyoming State Office 2515 Warren Avenue Box 1828 Cheyenne, WY 82001	328-2425	WY
Jerry Coalgate	Eastern State Office 350 S. Pickett Street Alexandria, VA 22304	235-3630	All Other States

Denver Service Center Contacts

Robert Arndorfer Assistant Director for Technical and Scientific Systems Denver Service Center Bureau of Land Management (D-400) Building 50, Denver Federal Center Denver, Colorado 80225 234-2239	Chief, Technology Transfer Staff Denver Service Center Bureau of Land Management (D-140) Building 50, Denver Federal Center Denver, Colorado 80225 234-3595
or	

Principal Field Project Leaders or Coordinators

<u>Project</u>	<u>Contact</u>
Forestry Intensified Research (FIR)	A1 Abee BLM FIR Coordinator Medford District Office 3040 Biddle Road Medford, Oregon 97501 424-4223

August 1982
(BLM)

Project

Saval Ranch Research and Evaluation
Project

Contact

Terry Dailey
Field Coordinator
Elko District Office
Box 831
Elko, Nevada
470-5437/598-6011

Steve Loomis
Research Hydrologist
c/o NW Watershed Research Center
1175 S. Orchard, Suite 116
Boise, Idaho 83705
554-1363

Snake River Birds of Prey Area
Research Group

Mike Kochert
Boise District Office
3948 Development Avenue
Boise, Idaho 83705
554-9279/1582

Old Growth Wildlife and Northwest
Wildlife Habitat Research

Chris Maser
c/o Forest Sciences Laboratory
3200 Jefferson Way
Corvallis, Oregon 97331
420-4419

BUREAU OF MINES

DESCRIPTION OF AGENCY ACTIVITIES

The Bureau of Mines was established by Congress in 1910. The Bureau's mission is: To assure the Nation continued mineral supplies at the least possible human, social, and environmental cost, while maintaining national security, employment, and continued economic growth; to stimulate the private sector in the production of minerals so that an appropriate and substantial share of national needs will be supplied from domestic sources; and to provide government with current and projected assessments of U.S. supply and demand relative to changing international developments as they affect the world flow of minerals.

The selection and execution of research projects is governed by the following themes:

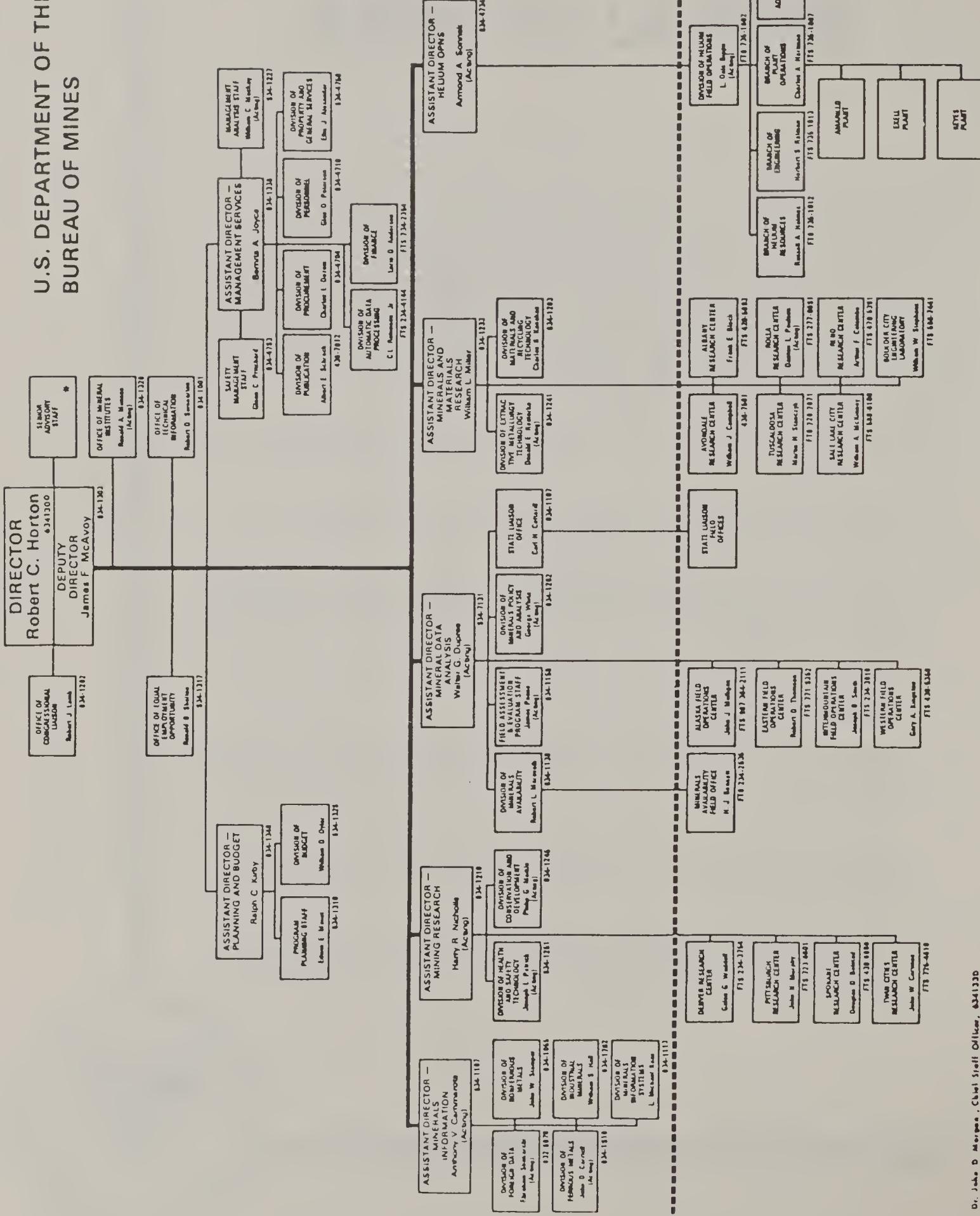
1. Promote the wise and efficient use of mineral resources from initial mining through ultimate disposal or recycling.
2. Promote the responsible development of domestic non-fuel mineral resources with particular emphasis on increasing U.S. mineral supply invulnerability and reversing the decline in our Nation's mineral strength.
3. Maximize the development of sound health and safety practices in the minerals industry.
4. Contribute to an improved fundamental understanding of procedures and processes involved in the production and use of non-fuel minerals.
5. Develop and apply improved procedures and methodologies for the collection and analysis of mineral reserve, production, and consumption data.
6. Contribute to the development and implementation of national mineral policies meeting the Nation's industrial, security, and human non-fuel minerals needs.



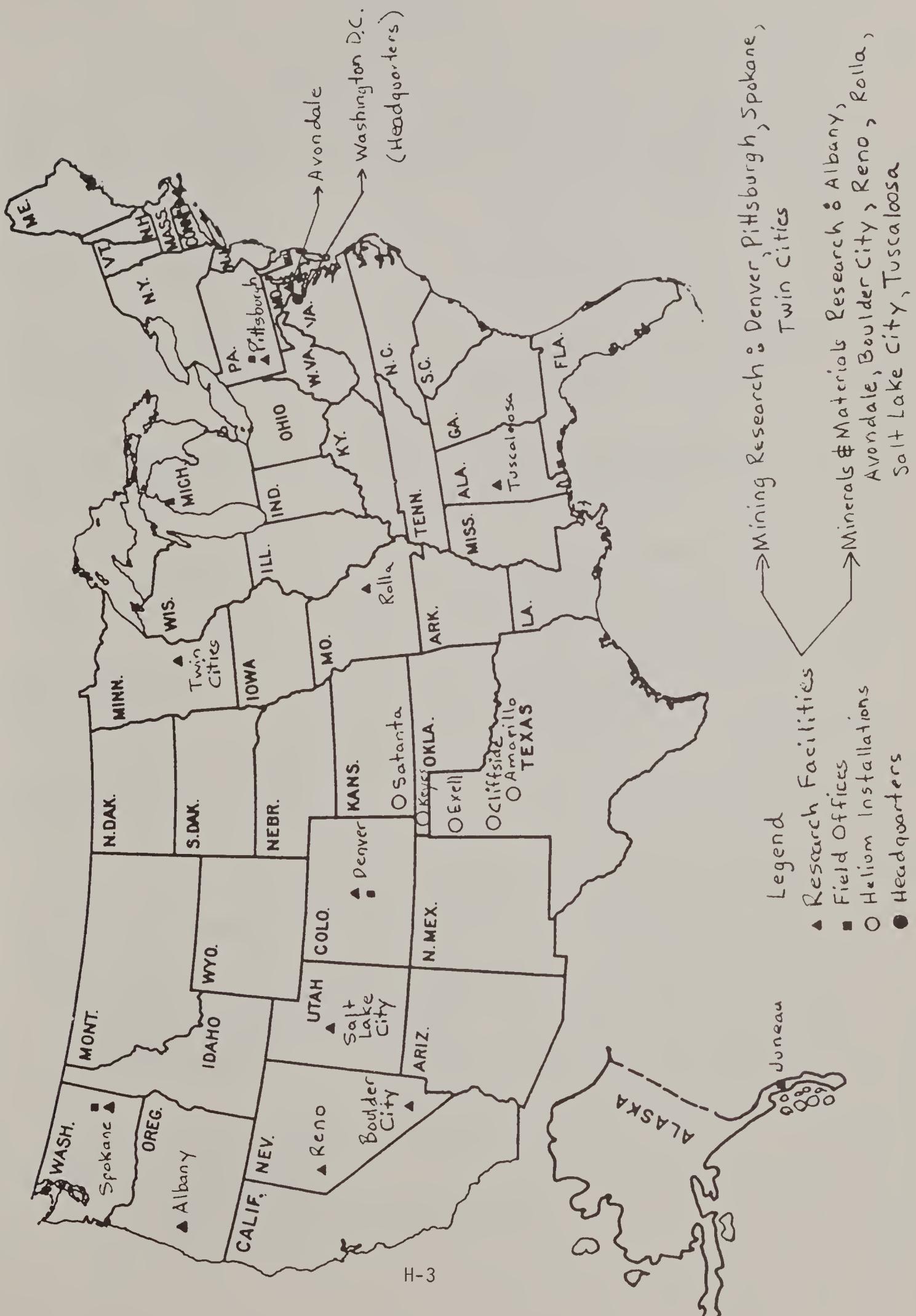
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

ORGANIZATION CHART
BUREAU OF MINES

August 1982
(BOM)



BUREAU OF MINES



DIRECTORY
BUREAU OF MINES

Addresses and Telephone Numbers of the Research Facilities

For answers to technical questions concerning these Research Centers and/or their programs, individuals should contact the Research Director at the appropriate Center. Their addresses and telephone numbers are:

Albany Research Center
P. O. Box 70
1450 Queen Ave., SW
Albany, OR 97321
503-967-5893

Rolla Research Center
P. O. Box 280
1300 Bishop Ave.
Rolla, MO 65401
314-364-3169

Avondale Research Center
4900 LaSalle Road
Avondale, MD 20782
301-436-7501

Salt Lake City Research Center
729 Arapeen Dr.
Salt Lake City, UT 84108
801-524-5350

Denver Research Center
Building 20, Denver Federal Center
Denver, CO 80225
303-234-3754

Spokane Research Center
East 315 Montgomery Avenue
Spokane, WA 99207
509-439-1610

Pittsburgh Research Center
P. O. Box 18070
Pittsburgh, PA 15236
412-892-2400

Tuscaloosa Research Center
P. O. Box L
University, AL 35486
205-758-0491

Reno Research Center
1605 Evans Avenue
Reno, NV 89520
702-784-5391

Twin Cities Research Center
P. O. Box 1660
Twin Cities, MN 55111
612-725-4610

Boulder City Engineering Laboratory
500 Dale St.
Boulder City, NV 89005

Technical programs carried out at each Research Facility are as follows:

Major Areas of Technical Competence:

Albany

- o Measurement of Thermodynamic Quantities
- o Melting and Casting Technology
- o Erosion and Water-Resistant Alloys
- o Pyrometallurgy

Avondale

- o Corrosion in Metallurgical Processes
- o Secondary Metals Recovery
- o Flotation Fundamentals
- o Particulate Mineralogy
- o Electrodeposition of Refractory Materials
- o Recycling Urban Refuse

Boulder City

- o Sulfur Utilization in Pavements and Concrete
- o Alumina from Non-Bauxitic Sources
- o Experimental Tailing Pond Design

Denver

- o Mine Structure Design
- o Premining Delineation of Underground Features
- o Microseismic Monitoring and Ground Stability

Pittsburgh

- o Explosives Research and Testing
- o Fire and Explosion Control in Mines
- o Safety of Mine Systems and Equipment
- o Mine Disaster Survival and Rescue
- o Environmental Preservation of Mined Lands and Stabilization of Mine Surfaces
- o Mine Health (respirable dust, noise, toxic gases, and radiation)

Reno

- o Fused-Salt Electrodeposition of Metals
- o Leaching of Base-Metal Sulfides
- o Solvent Extraction
- o Recovery of Gold, Silver, and Platinum

Rolla

- o Lead and Zinc Process Technology
- o Secondary and Byproduct Resource Recovery
- o Hydro- and Pyro-Metallurgical Processing
- o Chemical Vapor Deposition of Metals and Alloys
- o Materials for Metal Joining, Noise Abatement, Special Environments

Salt Lake City

- o Hydrometallurgy
- o Extractive Metallurgy for Copper and Uranium
- o Minerals and Metals Recovery from Natural Brines
- o Mine and Mill Tailing Stabilization
- o Recovery of Nonferrous Metals from Shredded Auto Scrap

Spokane

- o Mine Support Systems for Ground Control
- o Surface Mine Reclamation and Environmental Assessment
- o Designing and Developing Underground Mine Areas (Openings, Shafts, Pillars)

Tuscaloosa

- o Fine Particle Technology
- o Flocculation Fundamentals
- o Evaluating Clay and Ceramic Resources
- o Improved Refractories for Hostile Environments

Twin Cities

- o Mine Fire Protection and Equipment Safety
- o Low Btu Coal Gasification
- o Iron Ore Beneficiation and Pelletizing
- o Water Jet Applications to Mining
- o In Situ Mining and Leaching Technology
- o Dust and Diesel Emission Measurement and Control
- o Mineral Processing Environmental Control
- o Blasting Technology

Special Equipment and Test Facilities:

Albany

- o Calorimeters and associated equipment for precise determination of thermodynamic properties.
- o Range of melting and smelting furnaces from gram scale to one-ton charge, including 3-phase electric arc, cold-mold vacuum arc, inductoslag, induction, and vacuum induction.
- o Metal fabrication equipment with capability for converting ingots to sheet, wire, or forged shapes and for consolidating reactive metal sponge or powders. Equipment includes high-energy rate forming for difficult-to-form metals such as tungsten and molybdenum.
- o Complete materials testing facility for alloy development and materials wear and erosion research.
- o Twenty-five pounds per hour facility for roast-leach, purification, and electrowinning studies.

Avondale

- o Instrumentation for fundamental studies on flotation.
- o Instrumentation for fundamental studies on corrosion.
- o Ion accelerator plus ion implantors.
- o Auger electron spectroscopy.
- o Photon excited X-ray spectrography.
- o Clean room for fibrous particle analysis.
- o Secondary metal process recovery units.

Boulder City

- o Alumina miniplant--including stainless steel pressure reactors with agitators and all glass evaporative crystallizer.
- o Tailings pond testing facility for neutralizing and disposing of liquid and solid wastes.
- o Patchmobile modified to mix sulfur concrete.

Denver

- o High resolution seismic and electrical logging equipment.
- o Radon/Radon Daughter test chamber.

Pittsburgh

- o Experimental and safety research coal mines.
- o Railroad test facility.
- o Trapped miner detection equipment.
- o Surface fire trenching.
- o 12-foot diameter high pressure/high vacuum combustion facility
- o Longhole horizontal drill system.
- o Pond for underwater detonation research.
- o Automatic breathing metabolic simulator

Reno

- o Cells for fused-salt electrowinning of metals.
- o Bench-scale test unit demonstrating precious metal stripping and electrowinning (trailer mounted).

Rolla

- o Process research unit recovering chromium and nontoxic products from chromium etching wastes.
- o Melting and smelting furnaces.

Salt Lake City

- o Ion-exchange unit for extracting tungsten from Searles Lake Brines.
- o Power plant SO₂ stack gas scrubbing citrate process unit.

Spokane

- o Electrokinetic Dewatering of Coal Sludge
- o Roof bolt testing facility

Tuscaloosa

- o Field test units for dewatering mineral waste products.
- o Ground penetrating radar apparatus.
- o High temperature test equipment to evaluate refractories in gaseous, aqueous, and molten service conditions.
- o Physical beneficiation pilot plant.

Twin Cities

- o Pilot plant for low-grade coal gasification and pelletizing.
- o Airblast/ground vibrations instrumentation laboratory.
- o Minerals beneficiation pilot plant.
- o Water jet equipment and test facility.
- o Rugged mine equipment electronics laboratory.
- o Pilot scale cupola and basic oxygen furnaces.

FISH AND WILDLIFE SERVICE

DESCRIPTION OF AGENCY ACTIVITIES

A primary goal of the U.S. Fish and Wildlife Service (FWS) is the conservation and sound management of sport fishery and wildlife resources for the benefit of present and future Americans. Attainment of this goal requires continual collection, analysis, and synthesis of new information on which to base wise and timely management decisions. The Divisions of Research address the principal informational needs of the various management programs of the Service and provide many of the findings that contribute to the accomplishment of the Service's mission.

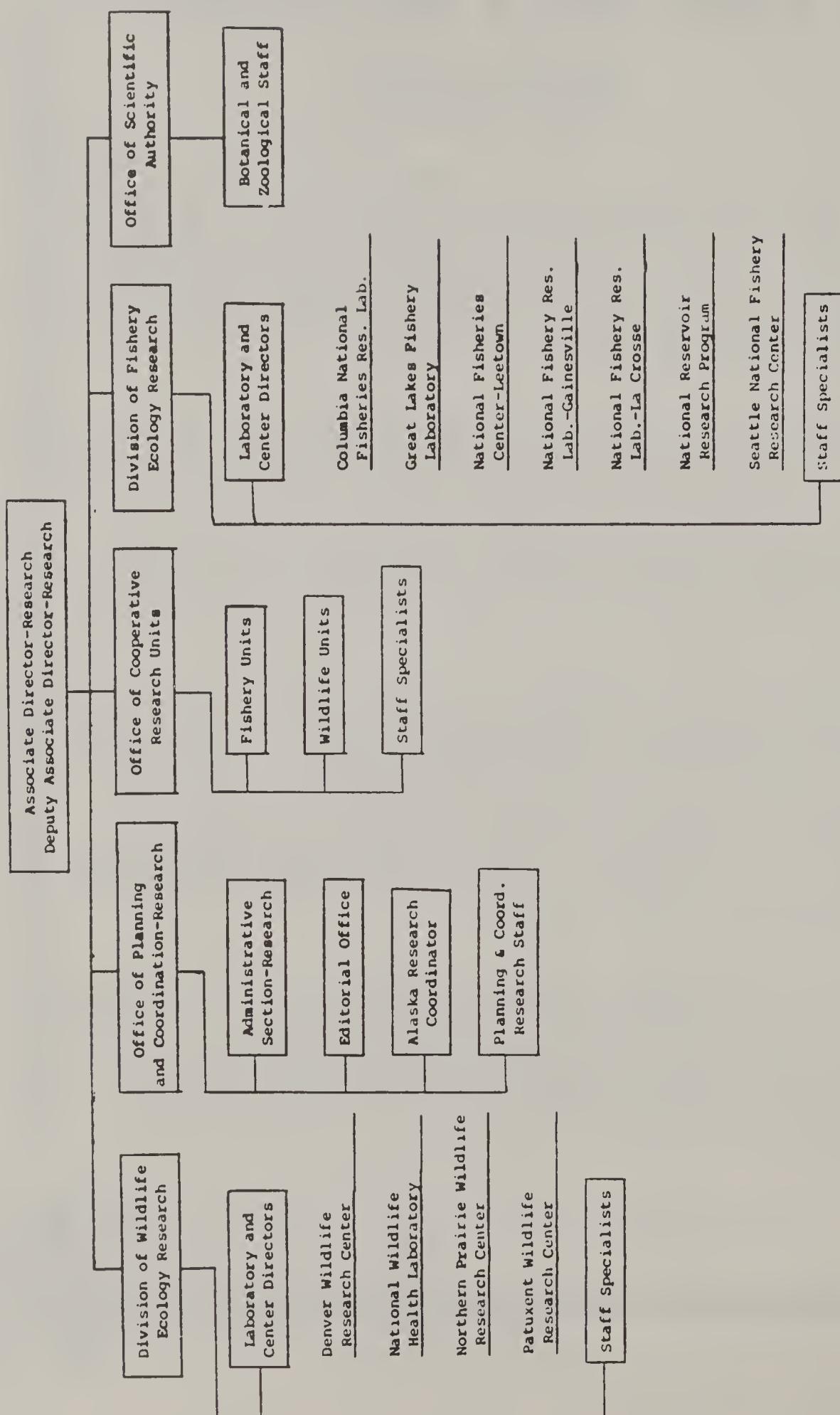
Research responsibilities within the Service are carried out by the Division of Wildlife Ecology Research, the Division of Fishery Ecology Research, and the Office of Cooperative Units. Information about species of fish and wildlife, the environments required for their existence, and the effects of management practices on them help the Service and other government agencies to meet their responsibilities for conserving and managing the Nation's fish and wildlife for social, economic, aesthetic, and scientific benefits.

FWS research must provide information for the management of: Refuge lands; migratory birds; anadromous, coastal and inland fisheries; and for the assessment and control of fish and wildlife diseases. It must also be responsive to the constantly emerging problems associated with the ever increasing human impact on the environment. These problems require assessment of the effects of environmental contaminants on fish and wildlife and their habitats, development of techniques to propagate fishes for enhancement, investigation into the protection and restoration of endangered species, and development of methodology to restore and enhance fish and wildlife habitats and populations destroyed by man or natural phenomena.

Research is carried out at 11 major facilities, approximately 80 satellite field stations, and 50 Cooperative Research Units. The planning, coordination, and administration of the research programs are centralized under the Office of the Associate Director-Research, in Washington, D.C. Fiscal, personnel, property management, and other supporting services are provided to the field research facilities by the seven Regional Offices of the Service.

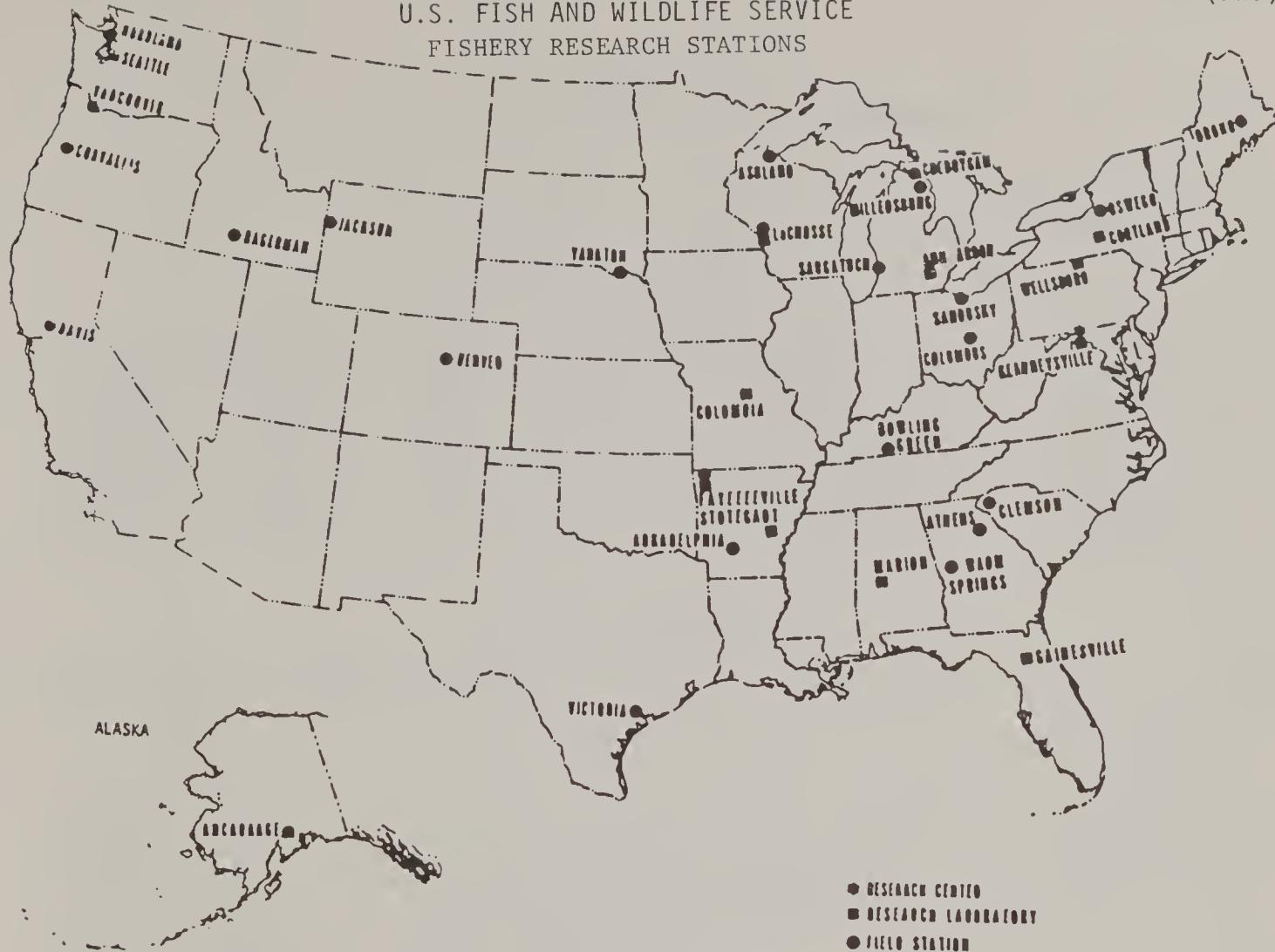


ORGANIZATION CHART
U. S. FISH AND WILDLIFE SERVICE

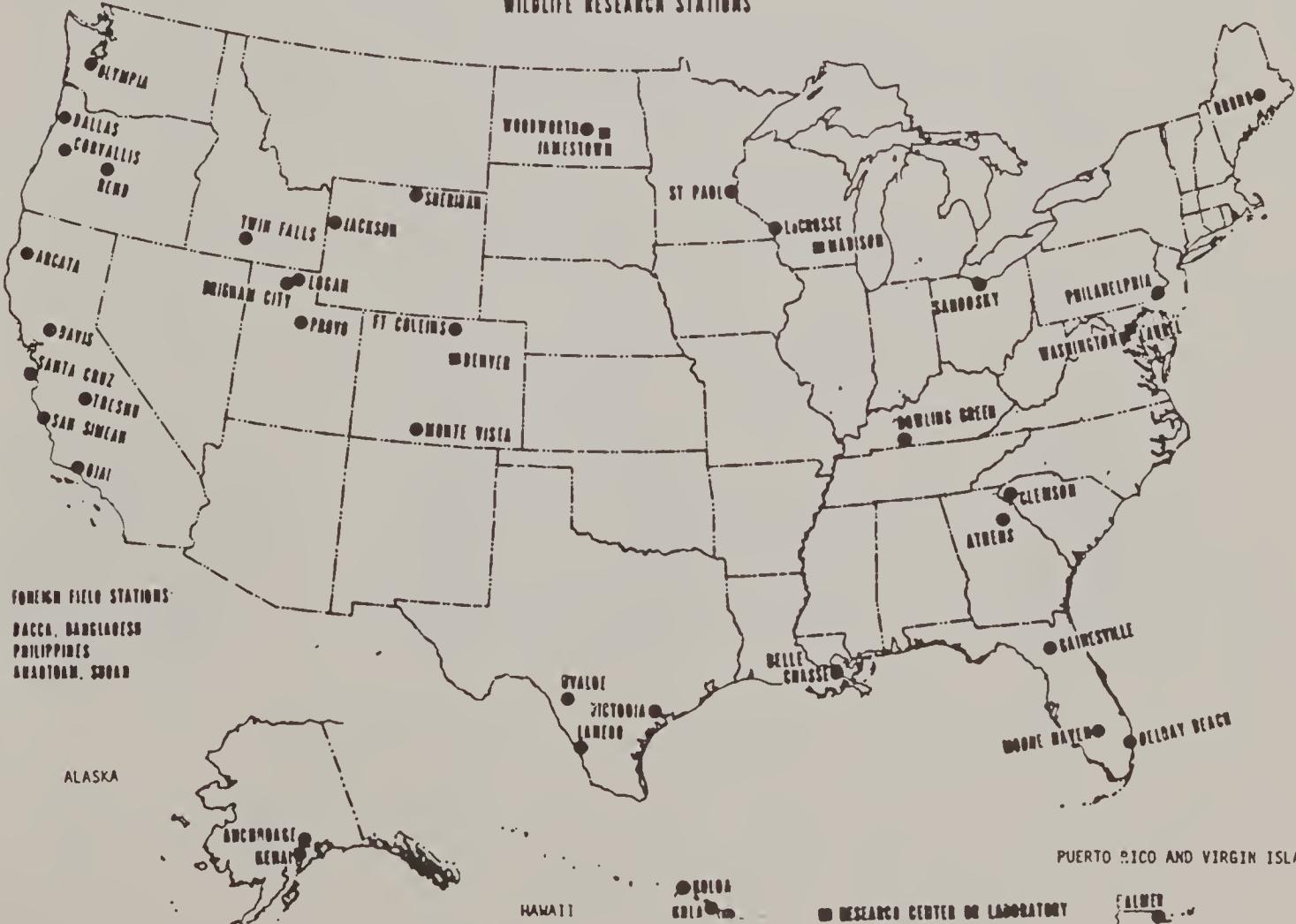


REGIONAL MAP
U.S. FISH AND WILDLIFE SERVICE
FISHERY RESEARCH STATIONS

August 1982
(FWS)



WILDLIFE RESEARCH STATIONS



DIRECTORY
U. S. FISH AND WILDLIFE SERVICE - RESEARCH

<u>Name</u>	<u>Title or Program</u>	<u>Phone Number</u>
<u>WASHINGTON OFFICE</u>		
Richard N. Smith	Associate Director-Research	343-5715
John D. Buffington	Deputy Associate Director-Res.	653-8791
Robert E. Stevens	Chief, Division of Fishery Eco. Res.	653-8772
David L. Trauger	Chief, Division of Wildlife Eco. Res.	653-8762
Nelson B. Kverno	Chief, Office of Planning & Coord.-Res.	653-8791
Rollin D. Sparrowe	Chief, Office of Cooperative Units	653-8766
Richard Jachowski	Chief, Office of Scientific Authority	653-5948

WILDLIFE LABORATORIES

Denver Wildlife Research Center, Building 16, Federal Center, Denver, CO 80225

<u>Name</u>	<u>Unit</u>	<u>Phone Number</u>
Clyde J. Jones	Director	234-2283
Richard D. Curnow	Assistant Director	234-2283
Michael Bogen	Wildlife Ecology on Public Lands	323-5277
Michael Fall	Predator Management Research	
John L. Seubert	Mammal Damage Control	
Glenn A. Hood	Bird Damage Control	
John W. DeGrazio	International Program	

National Wildlife Health Lab, 6006 Schroeder Road, Madison, WI 53706

Milton Friend	Director	364-5411
James Kennelly	Assistant Director	364-5411

Northern Prairie Wildlife Research Center, P. O. Box 1747, Jamestown, ND 58401

Rey C. Stendell	Director	783-6152
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Patuxent Wildlife Research Center, Laurel, MD 20708

John Rogers	Acting Director	937-7211
Russell J. Hall	Assistant Director	937-7211
William L. Reichel	Environmental Chemistry	937-7245
C. Randolph Perry	Endangered Wildlife Research	937-7291
Donald R. Clark	Population Ecology	937-7312
Aelred D. Geis	Urban Wildlife Research	937-7273
Thomas Dwyer	Game Bird Section	937-7334
Marshall Howe	Non-Game Bird Section	937-7281

FISHERY LABORATORIES

Columbia National Fishery Research Lab., Route 1, Columbia, MO 65201

Richard A. Schoettger	Director	276-5399
David L. Stalling	Chemistry Program	
Foster L. Mayer	Biology Program	

<u>Great Lakes Fishery Laboratory</u> , 1451 Green Road, Ann Arbor, MI		48105
Joseph H. Kutkuhn	Director	378-1200
Catherine L. Kopas	Biometrics and Computer Ser.	378-1211
Wilbur L. Hartman	Section of Resource Assessment	378-1239
Edward H. Brown	Population Dynamics	378-1225
Thomas A. Edsall	Section of Eco. & Limnology	378-1235
Bruce A. Manny	Nutrient Cyclng & Plankton Productivity	378-1255
Jarl K. Hiltunen	Benthos as Indicators of Env. Quality	378-1214
Thomas P. Poe	Effects of Water-Use Practices	378-1256
Wayne A. Willford	Section of Physio. & Contam. Chemistry	378-1237
Neal R. Foster	Physiology and Behavior	378-1233
James G. Seelye	Contaminant Dynamics	378-1267
Dora Passino	Contaminant Toxicology	378-1229

National Fisheries Center-Leetown, Route 3, Box 40, Kearneysville, WV 25430

David W. McDaniel	Acting Director	925-5218
Pete Bullock	National Fish Health Research Lab.	925-5235
Jack D. Howe	Experimental Hatchery	925-5347
Wendell Ogden	Fishery Academy	925-5239

National Fishery Research Lab., 7920 N.W., 71st Street, Gainesville, FL 32606

James A. McCann	Director	378-8181
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<u>National Fishery Research Lab.</u> , P.O. Box 818, LaCrosse, WI		54601
Fred P. Meyer	Director	364-3211
Donald C. Hales	Assistant Director	364-3212
Leif L. Marking	Research	

National Reservoir Research Progam, 100 West Rock Street, Fayetteville, AR 72701

Robert M. Jenkins	Director	740-0585
Larry R. Aggus	Research	

National Fishery Research Center, Building 204, Naval Sup. Activity, Seattle, WA 98115

Alfred C. Fox	Director	399-5960
Rowan W. Gould	Bacteriology	
John D. McIntyre	Fish Ecology	
William T. Yasutake	Pathology	
Gary A. Wedemeyer	Physiology	
Gerald R. Bouck	Toxicology	
Daniel M. Mulcahy	Virology	

COOPERATIVE FISHERY RESEARCH UNITS

John S. Ramsey Leader, Auburn University, AL 205-826-4786

James B. Reynolds	Leader, University of Alaska	907-474-7661
Jerry C. Tash	Leader, University of Arizona	602-762-8762
Roger A. Barnhart	Leader, Humboldt State University, CA	707-826-3268
William J. McConnell	Leader, Colorado State University	323-5235
Michael Van Den Avyle	Leader, University of Georgia	250-2234
James D. Parrish	Leader, University of Hawaii	808-948-8350
Theodore C. Bjornn	Leader, University of Idaho	208-885-6336
John G. Nickum	Leader, Iowa State University	865-3057
Charles F. Bryan	Leader, Louisiana State University	687-0380
Jon G. Stanley	Leader, University of Maine	207-581-7151
Henry E. Booke	Leader, University of Massachusetts	545-0398
Richard O. Anderson	Leader, University of Missouri	276-5351
Robert G. White	Leader, Montana State University	406-994-2450
Steven Gloss	Leader, Cornell University, NY	882-4251
Melvin T. Huish	Leader, North Carolina State University	672-4320
Robert F. Carline	Leader, Ohio State University	943-7395
O. Eugene Maughan	Leader, Oklahoma State University	728-4440
Carl B. Schreck	Leader, Oregon State University	425-4531
Dean E. Arnold	Acting Leader, Pennsylvania State Univ.	455-6592
Richard L. Applegate	Leader, South Dakota State University	605-688-6121
R. Don Estes	Leader, Tennessee Technological Univ.	528-3093
Ross V. Bulkley	Leader, Utah State University	750-2509
Garland B. Pardue	Leader, VPI & State University	937-6260
Richard B. Whitney	Leader, University of Washington	206-543-6475
Daniel W. Coble	Leader, University of Wisconsin	715-346-2178

COOPERATIVE WILDLIFE RESEARCH UNITS

Daniel W. Speake	Leader, Auburn University, AL	534-4509
David R. Klein	University of Alaska	907-474-4796
Lyle K. Sowles	Leader, University of Arizona	602-626-1193
Fred Samson	Leader, Colorado State University	323-5224
James C. Lewis	Leader, University of Georgia	250-2234
Maurice G. Hornocker	Leader, University of Idaho	208/885-6434
Robert B. Cahlgren	Leader, Iowa State University	865-3056
Phillip J. Zwank	Acting Leader, Louisiana State Univ.	687-0404
James A. Sherburne	Leader, University of Maine	207-581-2639
Wendell E. Dodge	Leader, University of Massachusetts	413-545-2757
Thomas S. Baskett	Leader, University of Missouri	276-5351
Bart W. O'Gara	Leader, University of Montana	585-3128
Milo E. Richmond	Leader, Cornell University, NY	882-4214
Theodore A. Bookhout	Leader, Ohio State University	943-7418
Frank S. Schitoskey	Leader, Oklahoma State University	728-4385
E. Charles Meslow	Leader, Oregon State University	425-4531
Gerald L. Storm	Acting Leader, Pennsylvania State Univ.	455-1515
Raymond L. Linder	Leader, South Dakota State University	605-688-6121
David R. Anderson	Leader, Utah State University	801-750-2466
Burd S. McGinnes	Leader, VPI & State University	937-6260
Donald H. Rusch	Leader, University of Wisconsin	262-2671

COOPERATIVE FISHERY AND WILDLIFE RESEARCH UNITS

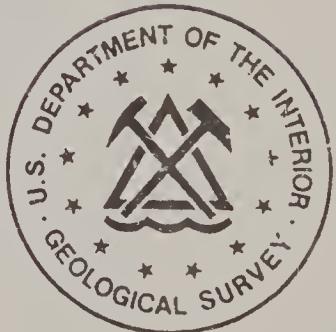
Richard W. Gregory	Leader, University of Florida	946-7275
Robert J. Muncy	Leader, Mississippi State University	601-325-2643
Stanley H. Anderson	Leader, University of Wyoming	328-4391

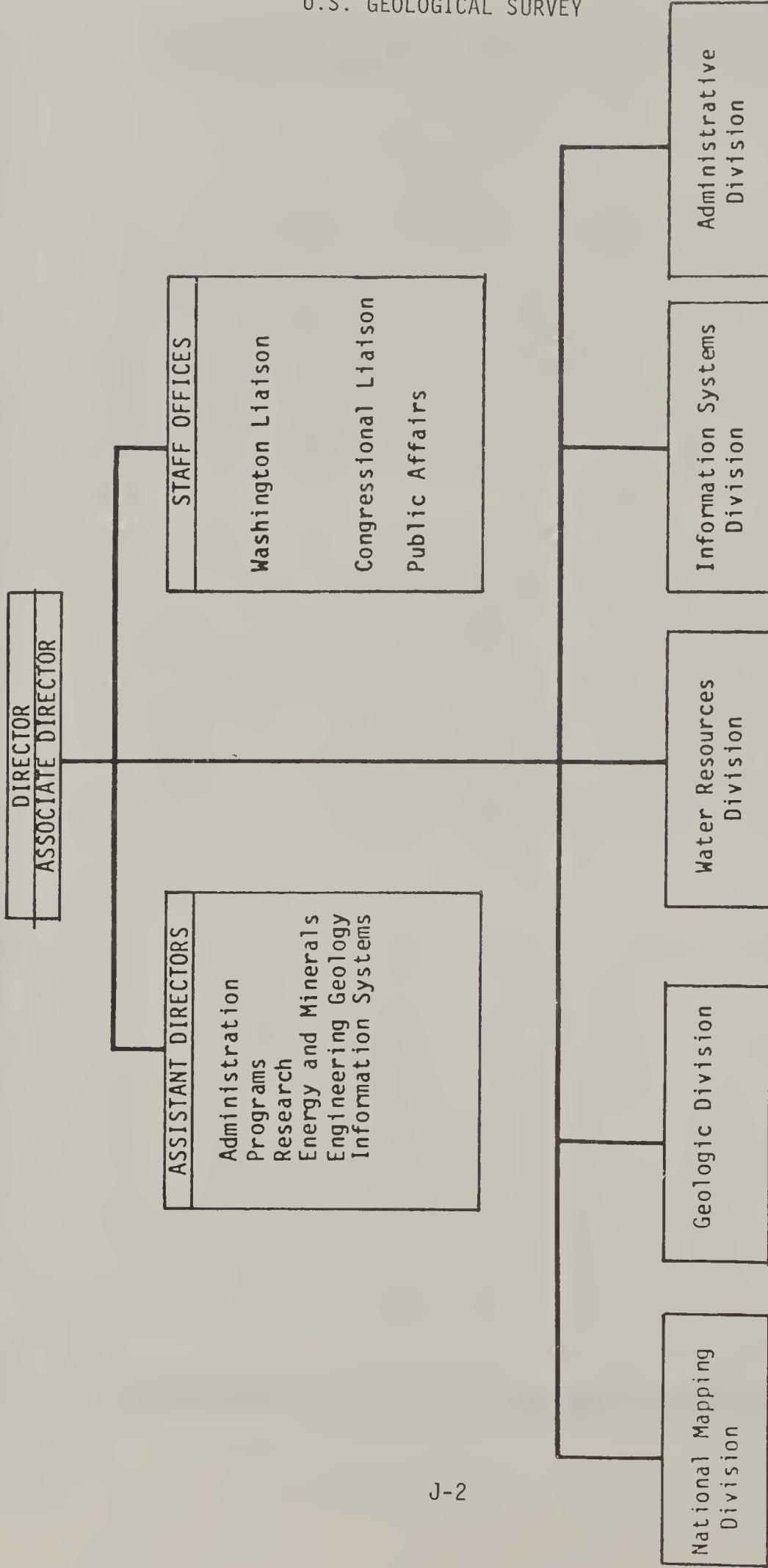
GEOLOGICAL SURVEY

DESCRIPTION OF AGENCY ACTIVITIES

The U.S. Geological Survey (USGS), is the principal agency of the Federal Government charged with studying, on a continuing, systematic, and scientific basis, the earth science phenomena with the goal of understanding the geological structure and mineral, water, and land resources of the Nation. USGS activities can be grouped into four major categories: Energy and minerals; Water resources; Hazards and land resources; and Mapping, geography, and remote sensing. Its major mission is to undertake research, fact finding, and mapping aimed at enlarging the Nation's knowledge about the geologic and hydrologic processes and hazards that effect the development of water and mineral resources and use of the land and the physical environment.

Today, USGS must discharge its responsibilities to a complex society in which finite land, mineral, and water resources are subject to sharply competing claims; where economic deposits of energy and mineral resources are becoming harder to find and more costly to produce; where the best remaining prospects are to be found on publicly owned lands, or in deep ocean environments; and where the encroachment of an urban society into hazard-prone areas poses the risk of great loss of life and property. The numerous programs that comprise the Survey's efforts are funded by direct appropriations and have been developed to meet these challenges that America faces in the late Twentieth Century.





*The Minerals Management Service (MMS) is an interium organization formed by the Secretary on January 19, 1982, from the Conservation Division of the U.S. Geological Survey (USGS). The Secretary will make decisions regarding the permanent locations of organizational elements of MMS prior to 1983.

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NATIONAL PARK SERVICE

DESCRIPTION OF AGENCY ACTIVITIES

The National Park Service (NPS) science program is decentralized. It consists of a Washington Office Staff that is concerned primarily with science policy, and an "operations" program in 10 Regional Offices.

The Associate Director for Science and Technology in Washington, D.C., is the principal NPS staff advisor for the Servicewide science and technology program. Through various staff members, the Associate Director establishes policy and Servicewide programs to meet the natural resources research needs of the NPS.

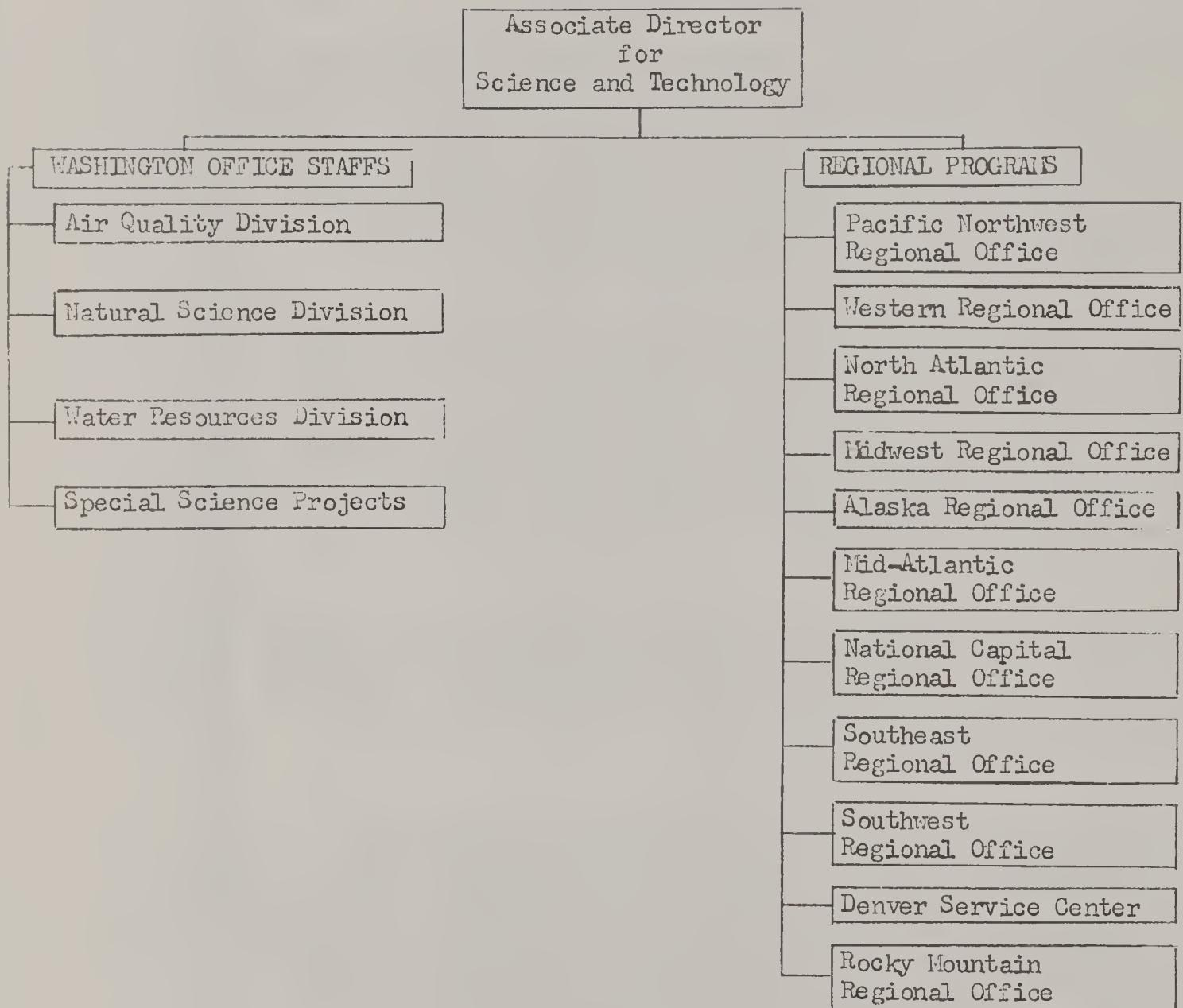
Each of the 10 NPS Regional Offices has a Chief Scientist who is responsible for coordination of research efforts in parks within that particular region. This includes overseeing research carried out by NPS personnel in the regional office, biologists and scientists assigned to parks, investigations done through contracting, agreements with academic institutions, or through Cooperative Park Study Units (CPSUs). This last category forms an important link between the academic world and park management; with the CPSU coordinator often serving on the school faculty.

The CPSU serves as a "brokerage," matching NPS science funds and a Park Superintendent's needs for natural resource information with a college or university program having special expertise or interest in a particular field of study. The CPSU leader can also develop many research opportunities for graduate students seeking either a location or a project compatible with their interests.

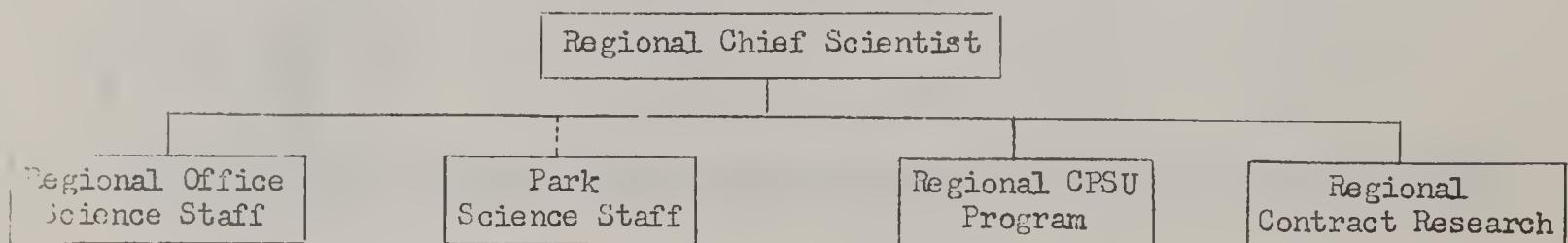
The NPS is not unique in believing that the key to sound natural resource management decisions is an adequate and well understood information base concerning the resource components and the system within which they interact. The Service does, however, go a step further and endorse a policy designed to promote the scientific use of the units of the National Park System whenever and wherever research is compatible with the unit's established purpose. Thus, National Park Service areas become valuable for use as scientific controls, as examples of naturally regulated ecosystems, and as study areas where the reclamation and the restoration of natural processes can be closely observed.



ORGANIZATION CHART
NATIONAL PARK SERVICE



REGIONAL OFFICE ORGANIZATION

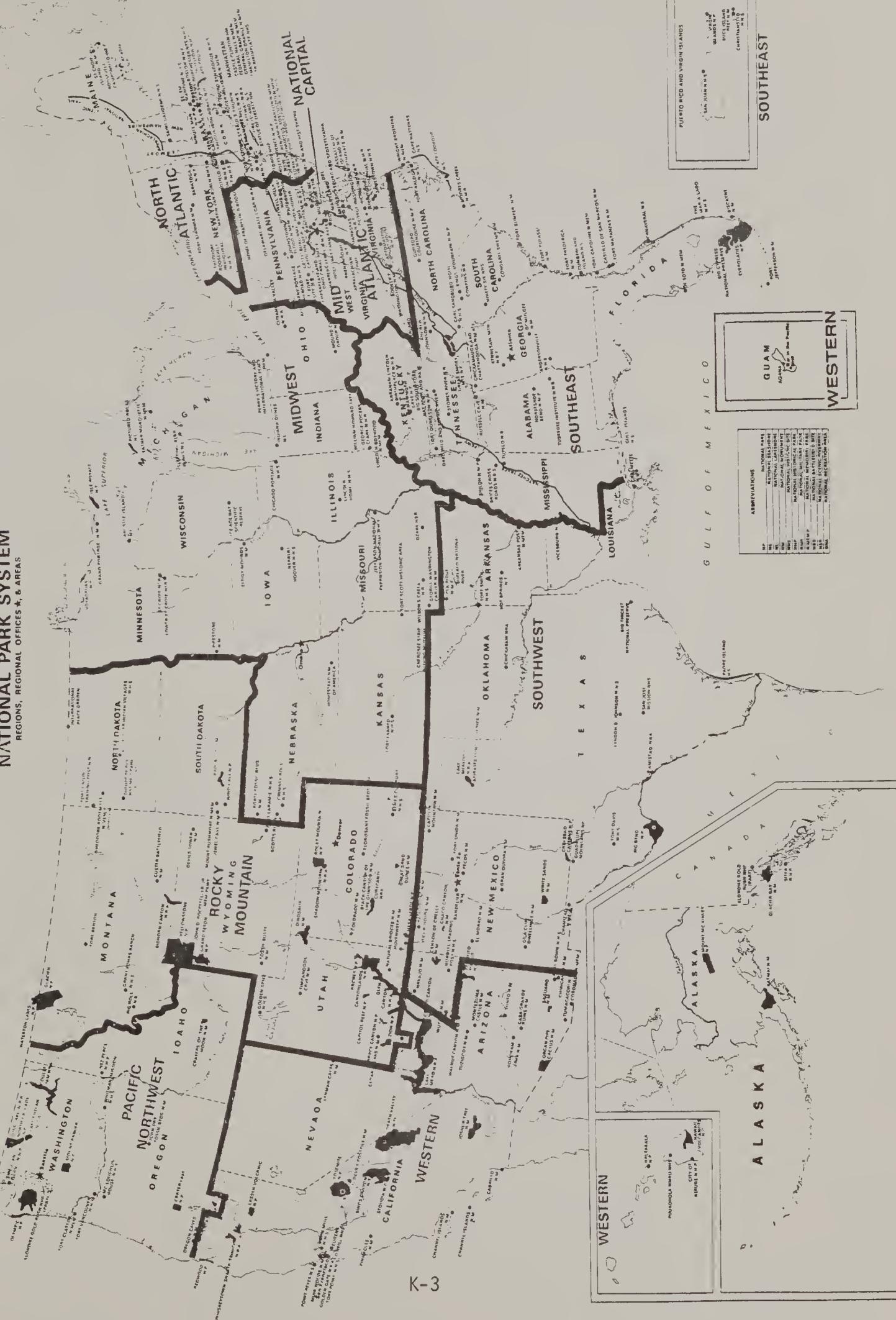


U.S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SYSTEM
REGIONS, REGIONAL OFFICES & AREAS

REGIONAL MAP

NATIONAL PARK SERVICE

August 1982
(NPS)



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